AuviTran

AuviTran
AVS-Monitor

User's Manual

Version 1.3

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1 WELCOME

AVS-Monitor software is a full set of tools to monitor, control and build your devices.

AVS-Monitor provides control and monitor functions over several networks:

- Provides graphical user interface to device and network
- Provides quick information on networks and devices
- Provides hierarchical view of each networks
- Provides full access to dedicated devices such as AVY16-ES board
- Enables user to build his own audio routing
- Provides group management of devices
- Manages bi-directional audio routing for compatible devices
- Provides smart routing of all devices

AVS-Monitor is able to handle with

- EtherSound networks for both control and routing of all EtherSound devices
- DANTE networks for remote control of AuviTran devices, as well as some 3rd party devices.

AVS-Monitor is based upon a service managing one or more networks. Therefore, AVS-Monitor can be used with a distant service (running on another computer), and several AVS-Monitor can use the same service. Service parameters can be set via its dedicated control panel.

Group functionality allows user to set together several devices that share same network and same type. Thanks to graphical interface, user will be able to interact with these groups and send several orders via one action only (muting all inputs for instance).

2 INSTALLATION

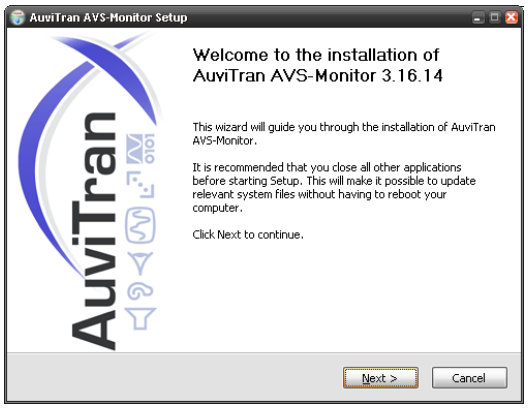
2.1 Computer requirements

AVS-Monitor will install and work on any desktop or laptop PC equipped with Windows XP, Windows Vista or Windows 7 (32-bit or 64-bit).

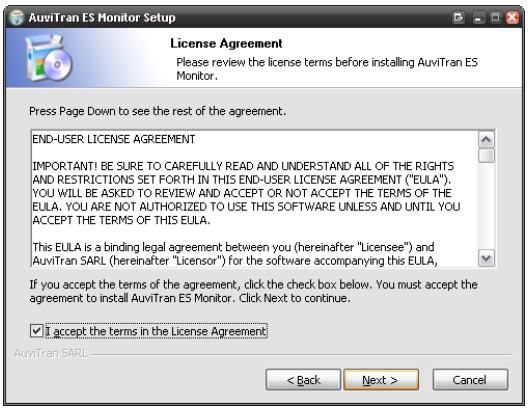
2.2 Installation

Please visit our website to download the latest version of AVS- Monitor Software (http://www.auvitran.com/).

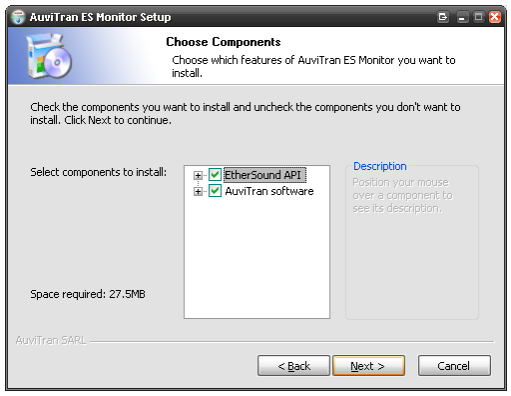
When installation software is launched, a welcome screen will appear:


AuviTran AVS-Monitor Setup
Welcome to the installation of AuviTran AVS-Monitor 3.16.14
This wizard will guide you through the installation of AuviTran AVS-Monitor.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
AuviTran
Next >
Cancel

Click on the « Next » button to start the installation.

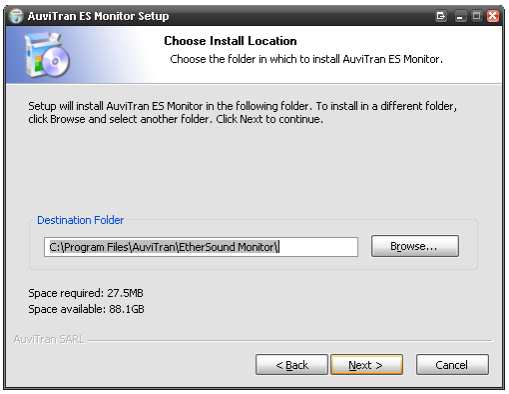

AuviTran ES Monitor Setup
License Agreement
Please review the license terms before installing AuviTran ES Monitor.
Press Page Down to see the rest of the agreement.
END-USER LICENSE AGREEMENT
IMPORTANT! BE SURE TO CAREFULLY READ AND UNDERSTAND ALL OF THE RIGHTS AND RESTRICTIONS SET FORTH IN THIS END-USER LICENSE AGREEMENT ("EULA"). YOU WILL BE ASKED TO REVIEW AND ACCEPT OR NOT ACCEPT THE TERMS OF THE EULA. YOU ARE NOT AUTHORIZED TO USE THIS SOFTWARE UNLESS AND UNTIL YOU ACCEPT THE TERMS OF THIS EULA.
This EULA is a binding legal agreement between you (hereinafter "Licensee") and AuviTran SARL (hereinafter "Licensor") for the software accompanying this EULA,
If you accept the terms of the agreement, click the check box below. You must accept the agreement to install AuviTran ES Monitor. Click Next to continue.
I accept the terms in the License Agreement
AuviTran SARL
< Back
Next >
Cancel

Accept license agreement to carry on with installation.


AuviTran ES Monitor Setup
Choose Components
Choose which features of AuviTran ES Monitor you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select components to install:
EtherSound API
AuviTran software
Description
Position your mouse over a component to see its description.
Space required: 27.5MB
AuviTran SARL
< Back
Next >
Cancel

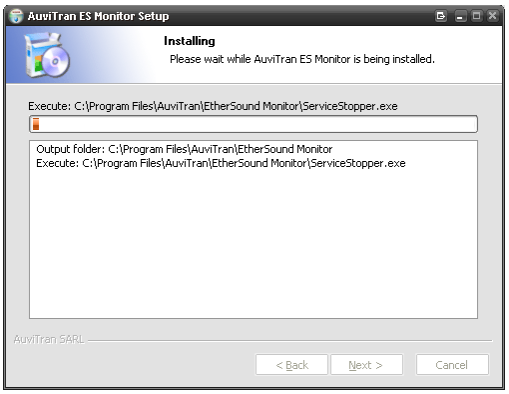
The screen presents the components available for installation. By default, they are both ticked and will be installed.
Select MIDI Tunneling to copy MIDI drivers on your hard drive. Refer to documentation to install these drivers after.
Before installing EtherSound Monitor, please check your hard disk has the necessary space for the operation. Then, click on the “next” button.

The next screen will ask for the destination folder you want the program to install in. A default folder will be proposed. You can browse on your hard disk to change that destination folder. Then click on the "install" button.


AuviTran ES Monitor Setup
Choose Install Location
Choose the folder in which to install AuviTran ES Monitor.
Setup will install AuviTran ES Monitor in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\Program Files\AuviTran\EtherSound Monitor\
Browse...
Space required: 27.5MB
Space available: 88.1GB
AuviTran SARL
< Back
Next >
Cancel

Install process will go on automatically.

If needed, install will prompt you for re-installation of EtherSound API.



Click on "Finish" to complete the installation.

Automatic reboot will be done if needed.
Or AVS-ControlPanel will be launched to start AVS-Service if desired.

AVS- Monitor is now installed and ready for use.

2.3 Network setup

2.3.1 EtherSound network

In order to control and monitor your devices via AVS-Monitor, connect your PC from the selected network adapter to the 3rd port of an EtherSound device, the IN port of an EtherSound device or multiple EtherSound networks through a switch.

AVS-Monitor will automatically detect and listed available EtherSound devices.

2.3.2 DANTE network

In order to control and monitor DANTE known devices via AVS-Monitor, connect your PC from the selected network adapter to one DANTE device or to your DANTE network through a switch.

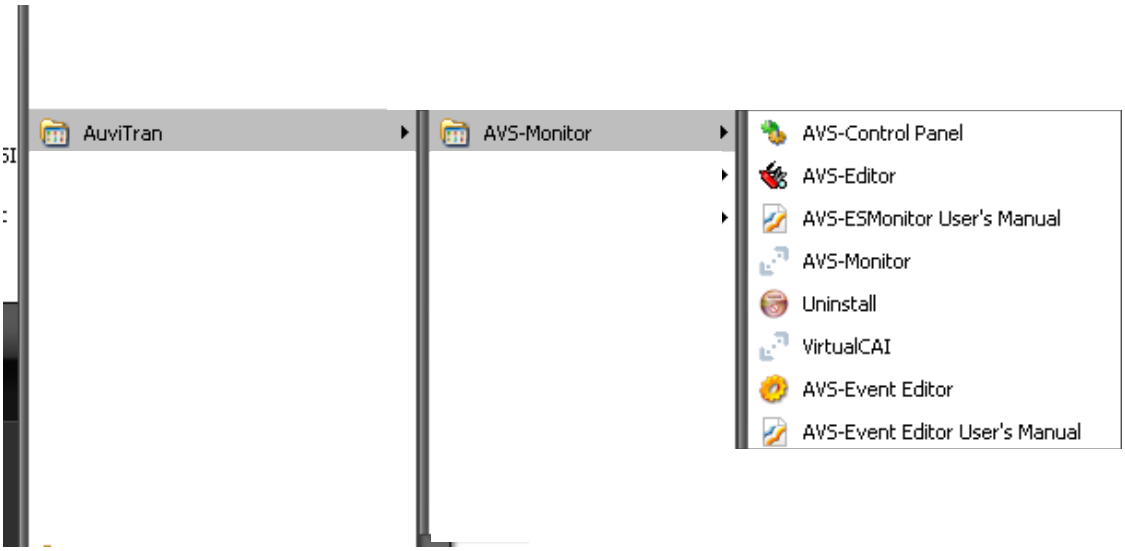
AVS-Monitor will automatically detect and listed recognized DANTE devices.

Note that DANTE devices require IP address assignment. In most cases, this will be done automatically by the network architecture where DHCP will be present. But if DHCP is not present or installed, we recommend to use OpenDHCP which is free of charge and available for download here: OpenDHCP download link

3 AVS-MONITOR SOFTWARE

AVS-Monitor comes with several software allowing user to configure, use and manage day by day his networks and devices.

All these software are accessible using shortcuts located in menu All Programs, AuviTran, AVS- Monitor as shown here:



Software shortcuts

Shortcuts provide access to:

- AVS-Control Panel — To configure AVS-Monitor software
- AVS-Editor — To build and edit offline configuration
- AVS-Monitor User's Manual — This user's manual
- AVS-Monitor — To manage networks and devices
- Uninstall — To uninstall AVS-Monitor software
- VirtualCAI — Tool to manage CAI Communication protocol
- AVS-Event Editor — Tool to manage events
- AVS-Event Editor User(s Manual — Event Editor user's manual

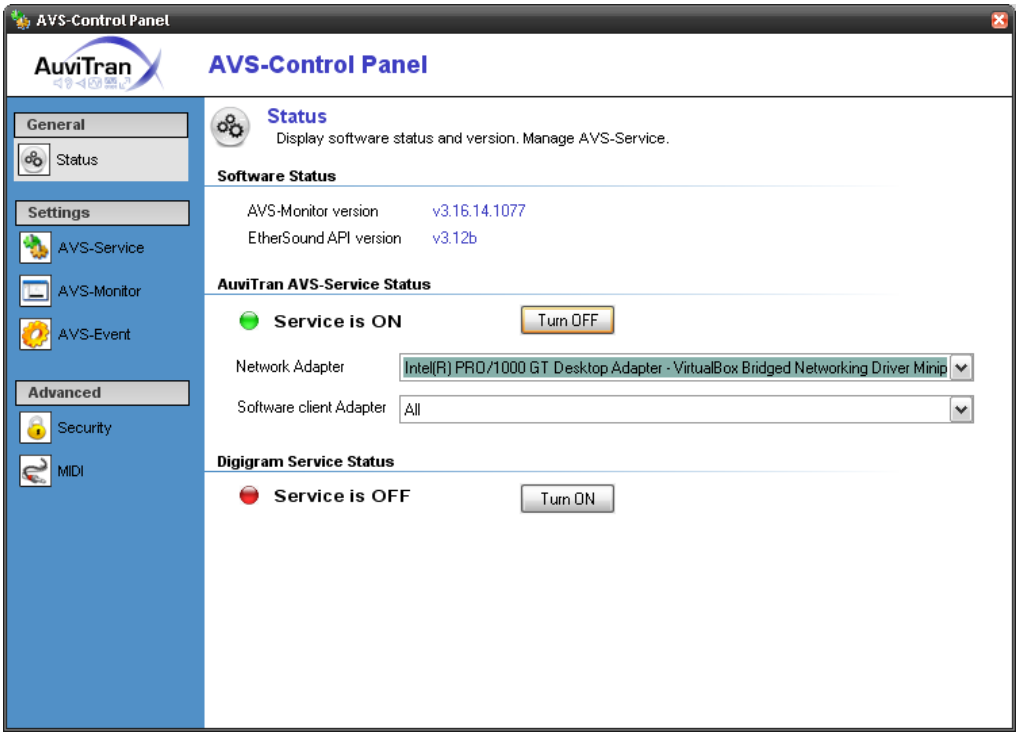
A complete description of each software can be found in the following chapters.

4 AUVITRAN SERVICE CONTROL PANEL

Thanks to AuviTran Service Control Panel, user can modify software parameters at any time, as well as start and stop AuviTran Service.

To access chosen category, user selects it by clicking on left side bar corresponding icon.

4.1 General / Status



Service Control Panel

Software Status displays current software version as well as current EtherSound API version installed on computer.

AuviTran AVS-Service Status provides current service state via a Red/Green bullet. User can stop/start service using the Turn OFF/ON button.

User can also affect the different adapters present on the computer.

- Network adapter: is the adapter connected to the EtherSound and DANTE networks
- Software client Adapter: is the adapter used for external communication with AVS-ESMonitor applications.

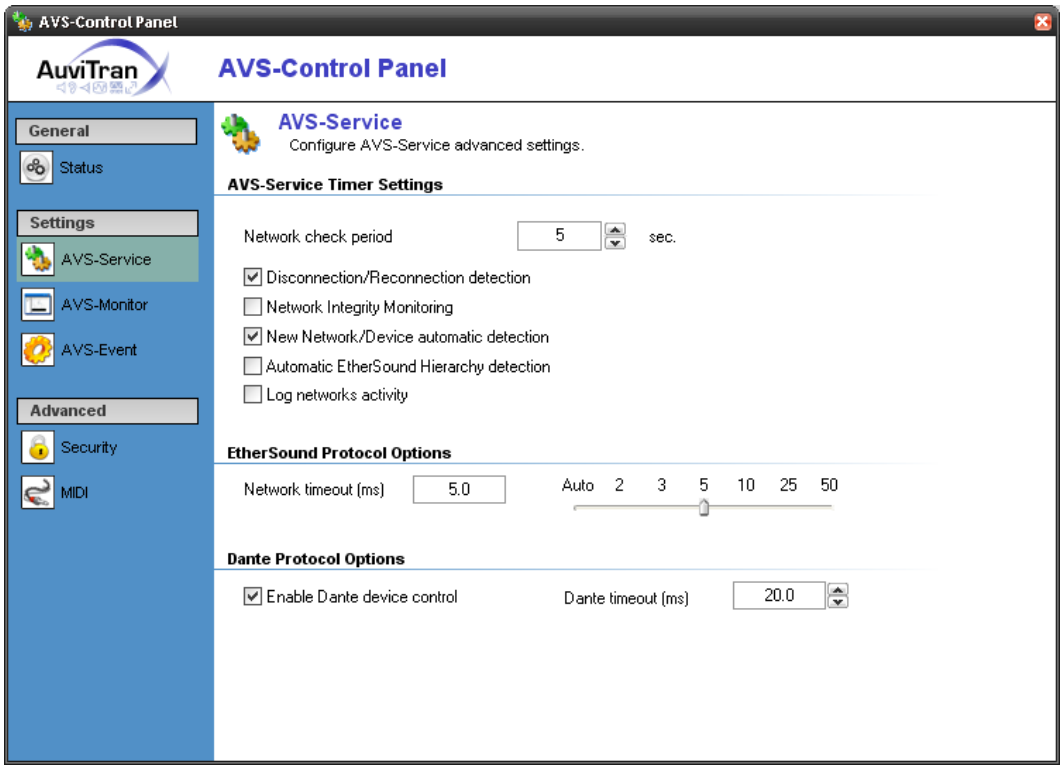
Several options are available:

- None : Only AVS-Monitor running on local computer will be addressed
- All : All Adapter can be addressed by AVS-Monitor, including local computer
- Selected adapter : Only selected adapter and local computer will be addressed

Note that network Adapter and Software client Adapter can be identical if only one adapter is present.

Digigram Service Status provides information only if Digigram service is installed, state is also displayed beneath the AuviTran Service information.

4.2 Settings / AVS-Service



Configuration Control Panel

This panel allows user to select EtherSound check options, and periodicity.

AVS-Service Timer settings:
This will allow user to set check period as well as several options such as:

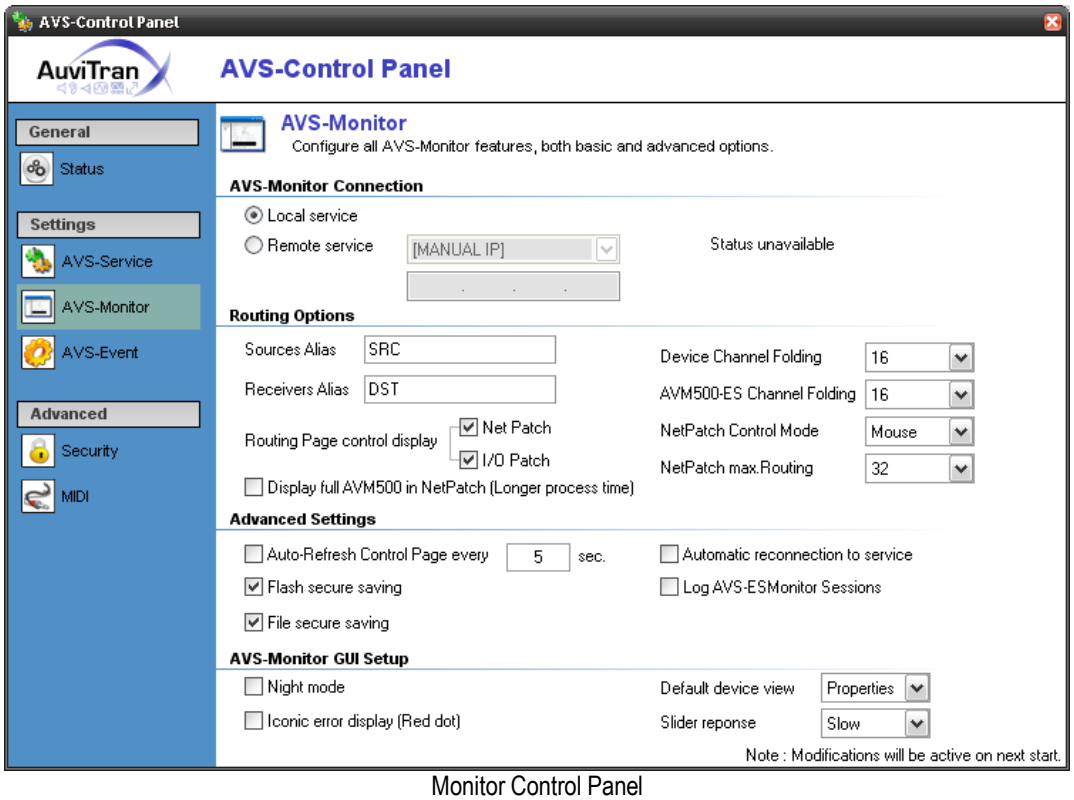
- Disconnection/Reconnection detection: AVS-Monitor will be prompted when device is disconnected or reconnected.
- Network Integrity Monitoring: Service will check device status to ensure EtherSound network is working properly.
- New Network/Device automatic detection: AVS-Monitor will be prompted when a new network is connected, or a new device is added to network.
- Automatic EtherSound Hierarchy detection: Service will build automatically device hierarchy.
- Log networks activity: creates alog file with all networks events.

EtherSound Protocol options:
This can be used to set EtherSound network timeout. Default value should be 5msec.

Dante Protocol options:
This can be used to activate the Dante device management, ans set the Dante timeout value.

Note that logging activity over long period may create large files that can be harmful for your system.

4.3 Settings / AVS-ESMonitor



Monitor Control Panel

This panel is to be used to set AVS-ESMonitor connection to local or distant service.

Several options are available through this interface:

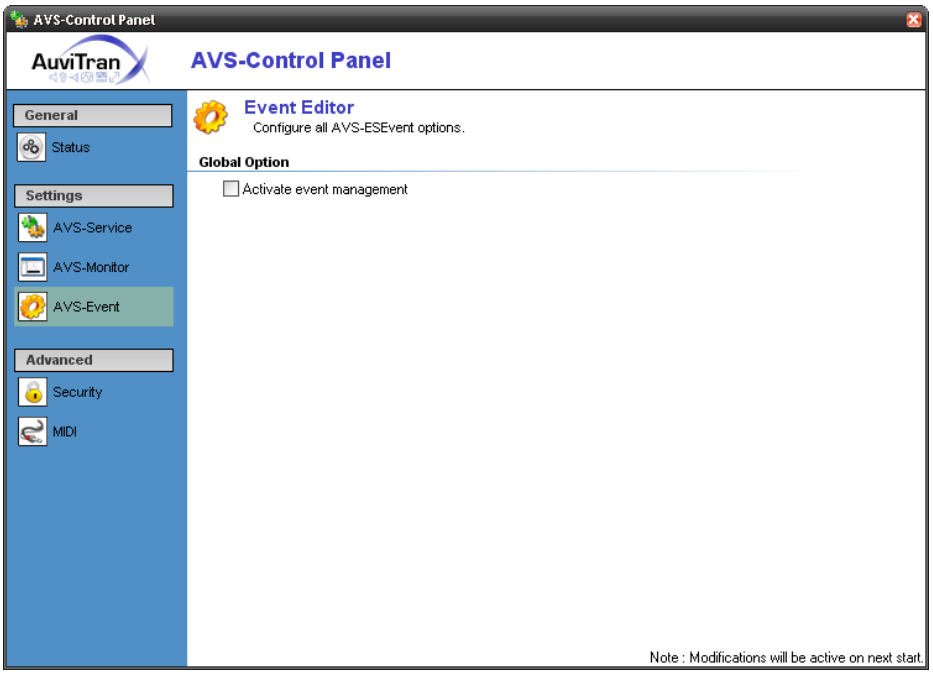
- AVS-ESMonitor Connection
  - Local service: AVS-ESMonitor will connect to local computer
  - Remote service: AVS-ESMonitor will connect to distant computer knowing its IP address or its network name

- Routing options
  - Source Alias: Default alias used for source naming
  - Receiver Alias: Default alias used for receiver naming
  - Routing page control display: Allow use of only Net Patch or I/O Patch, or both Routing page
  - Device Channel Folding: Allow to group channel per device by 8, 16, 32 or Full
  - AVM500-ES Channel Folding: Allow to group AVM500-ES channel by 8, 16, 32 or Full
  - NetPatch Control Mode: Allow to select space or mouse button for assigning routing in NetPatch control page
  - NetPatch maximum Routing: Maximum patching performed with multi-selection in NetPatch control page
  - Display full AVM500 in NetPatch : Allow display of internal matrix routing. Processing time might be long and decrease overall performance.

- Advanced Settings
  - Auto Refresh Control Page: Device control page will be automatically refreshed automatically if checked
  - Automatic reconnection: When service is turned off, AVS-ESMonitor will switch to offline mode, and will try to get back to online mode when service will be turned on again
  - Flash secure saving: When saving to device non volatile memory, software will ensure what was saved
  - File secure saving: Ensures hat a proper complete detection is performed before creating configuration file.
  - Log AVS-ESMonitor sessions: AVS-ESMonitor will log all specific events occurring while running (loading configuration, disconnection, …)

- GUI Setup
    - Night mode: Switches AVS-Monitor interface to dark mode
    - Iconic error display: Presents a Red Dot on device when error(s) is detected on devices such integrity error.
    - Default device view: Allows user to select between Properties or Control startup page.
    - Slider Response: Allow user to adjust slider response to its configuration. Value impacts command rate for device when slider is in use. Range from Very Slow to Full Range. This option may have significant impact on AVS-ESMonitor slider feedback.

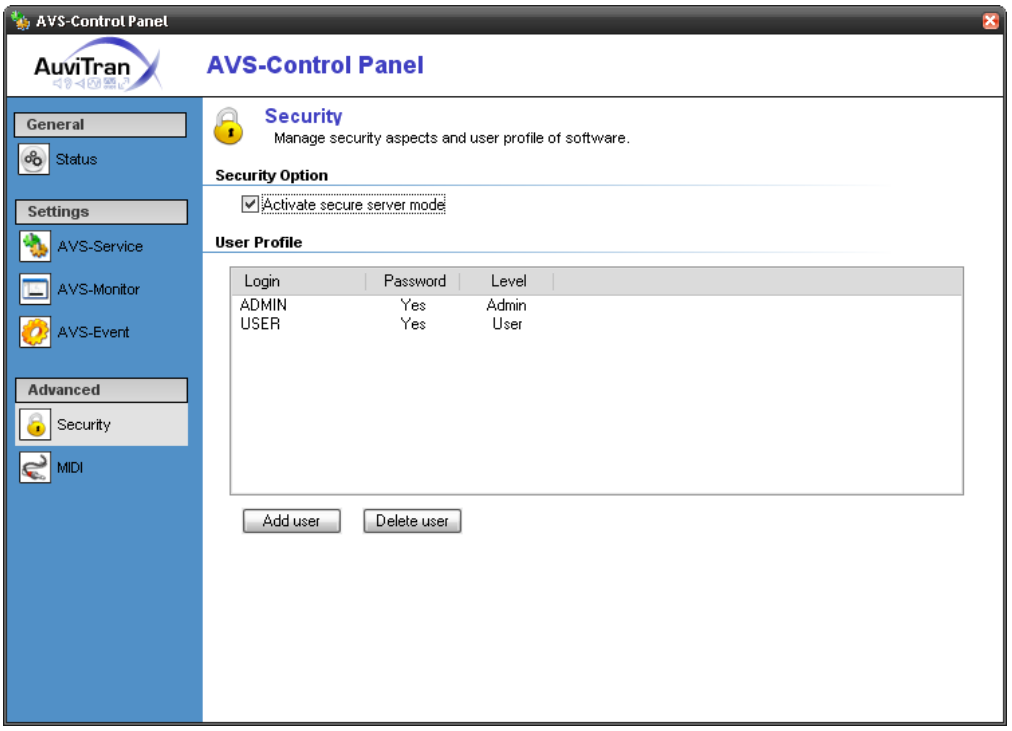
4.4 AVS-Event



Monitor Control Panel

If “Activate event management” is checked AVS-Service will scan devices in order to react accordingly to events created with the AVS-Event Editor.

4.5 Security



Monitor Control Panel

This panel is used to create/modify/delete user when AVS-ESMonitor is set to secure mode.

"Activate secure server mode" option allows to change between secure/normal mode.

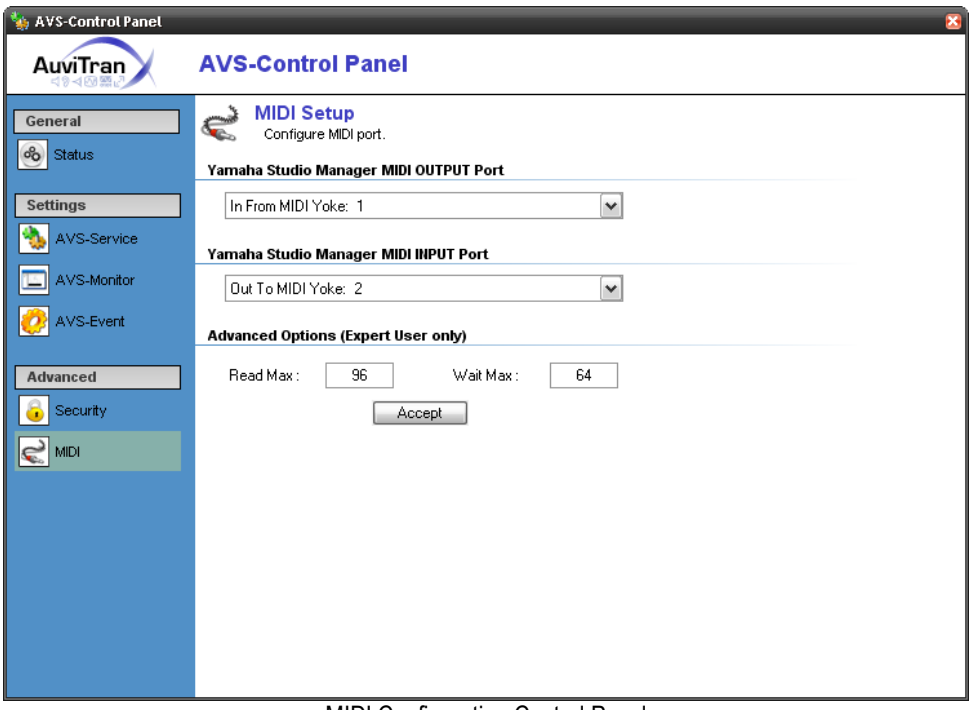
List presents all users with their respective access level, and if password is set for this user.
Admin level: User has access to all controls within AVS-ESMonitor.
User level: User has access to control page of devices, but can't modify routing.
Viewer level: User can only view device control and routing tabs.
Double-clicking on a user allows modification of user's properties.

Button "Add user" allows creation of a new user.
Button "Delete user" allows deletion of currently selected user.

Note: Security access can only be modified by administration user. Control panel will be only viewable for user without admin password.

4.6 MIDI

Note that MIDI tunneling is only available on AVY16-ES devices. AVY16-ES100 device is not compatible with this feature.



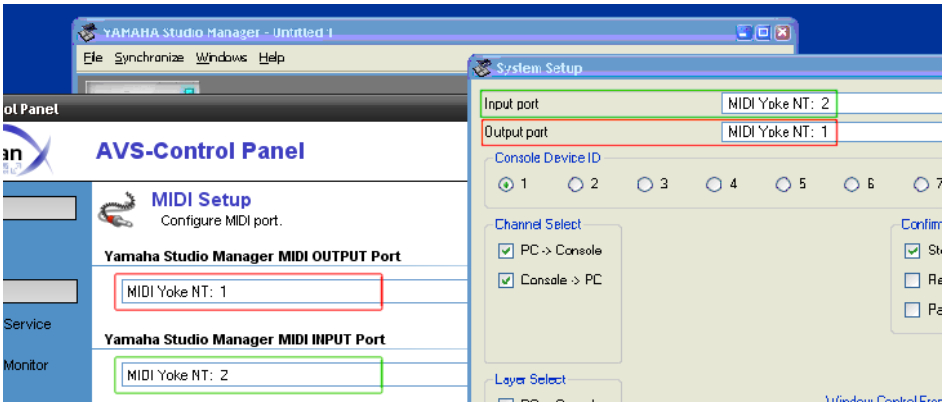
MIDI Configuration Control Panel

When MIDI drivers are installed (refer to dedicated documentation for installation procedure), this panel allows user to setup MIDI Port for MIDI tunneling through AVY16-ES board.

Note that MIDI Yoke NT port selected must match the MIDI port selected in the Yamaha Studio Manager.

Advanced parameters are reserved for expert users, as it may result in unstable MIDI tunneling.

For instance, Yamaha Studio Manager software must be configured as shown below for the 01V96 Studio Manager for instance:



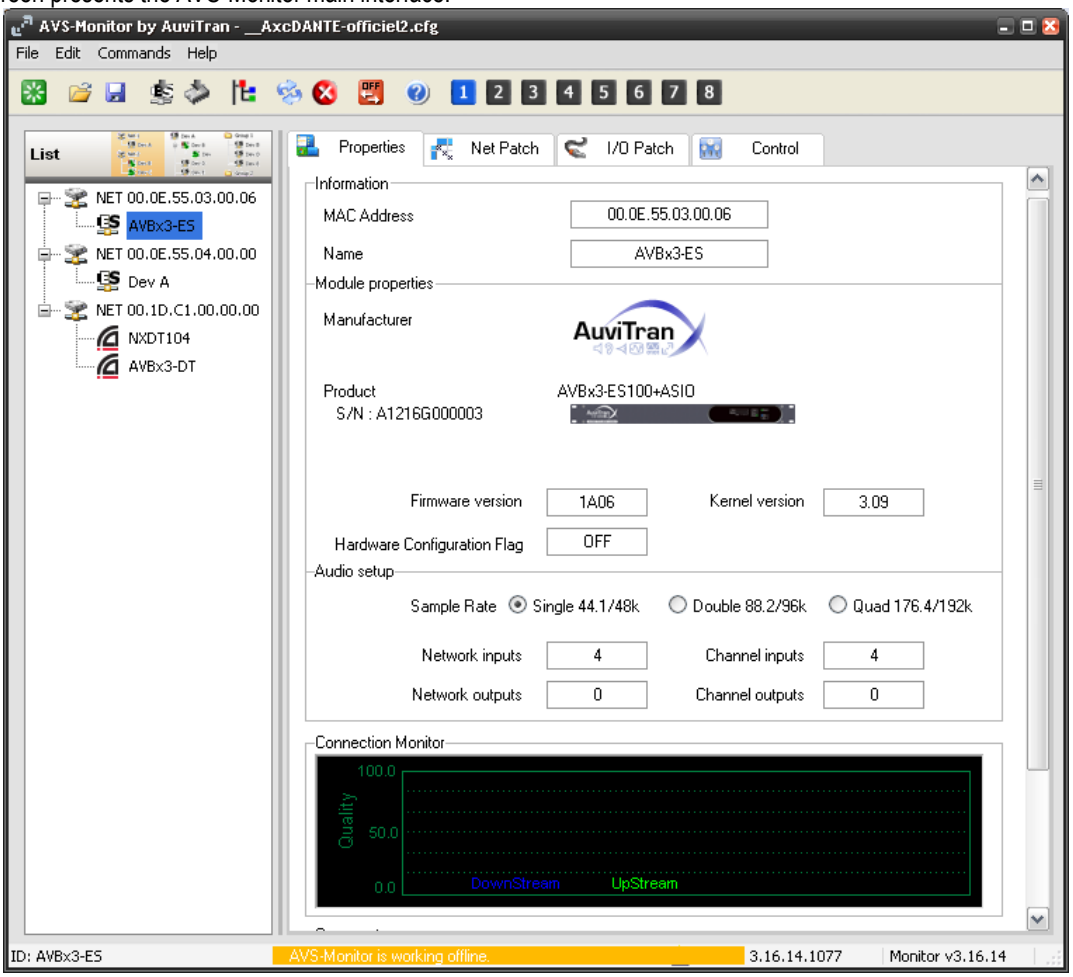
MIDI Configuration for both control panel and Yamaha Studio Manager

Note that Input and Output port must use a different MIDI Yoke NT port.

5 AVS-MONITOR

5.1 AVS-Monitor Main Interface

This screen presents the AVS-Monitor main interface:



Overview of main interface

Main interface is composed of:

- Menu: Configuration and network functions
- Toolbar: Allows quick access to useful functions
- Status Bar: Information on current selection
- Tree Views: Selection of both EtherSound and DANTE network/device
- Tab pages: Information, Control and Routing of EtherSound device

5.2 Menu

Menu is organized that way:

Menu	Submenu	Function
File	Load…	Load a configuration previously saved to a file
	Save as…	Save current configuration to a selected file
	Save	Save current configuration to opened file
	Restore from Non Volatile Memory	Restore configuration from Non Volatile Memory to all devices on current network or only to current device
	All Networks	
	Selected Network	
	Selected Device	
	Write to Non Volatile Memory	Write configuration to Non Volatile Memory of all devices on all networks/current network or only to current device
	All Networks	
	Selected Network	
	Selected Device	
	Exit	Exit AVS-ESMonitor
Edit	Hide/Show left view	Hide/Show EtherSound networks display
	Show log window	Show AVS-ESMonitor log window with occurred events
	Launch AVS-Editor	Launch AVS-Editor with current configuration by default
	Launch AVS-Event Editor	Launch AVS-Event Editor
	Launch AVS-ASIO Control Panel	Launch AVS-ASIO Control Panel
	Preferences/Control Panel	Launch AVS-Control Panel directly from AVS-Monitor
	Disable CTRL+SHIFT check	Remove the CTRL+SHIFT check on some advanced configuration settings
	NetPatch settings	
	Keyboard control	Allows keyboard control of NetPatch instead of mouse
Command	Global	
	Switch offline mode	Switch between offline/online mode
	Reset networks	Ask for complete rediscover of devices
	Remove all groups	Delete all current groups
	Reset RME settings	Delete all saved RME device board
	Network	
	Rename	Rename selected network
	Build all hierarchy	Force a manual hierarchy discovery
	Remove network	Remove network from offline session
	Clear all routing	Set all devices to Mute
	Force to MonoDir	Set all devices to MonoDir mode
	Force Ring mode off	Reset ring mode
	Create routing report	Create a .csv file of all network routing
	Device	
	Rename	Rename selected device
	Switch Start BiDir Loop	Switch Start BiDir Loop status ON/OFF
	Switch End BiDir Loop	Switch End BiDir Loop status ON/OFF
	Set Preferred PMaster	Set device as Preferred PMaster (Ring)
	Reset device	Reset device
Help	Read AVS-Monitor Doc.	Launch this documentation if a .pdf reader is installed
	Launch AVS-Monitor webpage	Launch a web-browser directly on AVS-Monitor webpage
	Check for updates	Check if a newer version is available on website
	About	Display AVS-Monitor version

5.3 Toolbar

Main toolbar dialog

Main toolbar from AVS-Monitor allows user to:

- Reset networks
- Load configuration from a file
- Save configuration to a file
- Save all parameters from current network to devices Non Volatile Memory
- Save all parameters from current device to its Non Volatile Memory
- Launch a manual detection of EtherSound hierarchy
- Launch a refresh of current control page
- Mute all EtherSound channels from all devices on current network
- Switch to online/offline mode
- Show About dialog
- Macro button #1 (Blue=Assigned, Grey=Unassigned, Red=Configure)
- …
- Macro button #8

5.4 Macro functions

Macro button allows user to directly store a configuration within AVS-Monitor for quick access.

Macro button status

Macro button color changes depending on its status

- Blue button: Macro is assigned
- Grey button: Macro is unassigned
- Red button: Macro can be configured

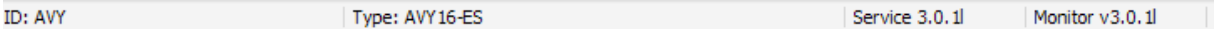
To “program” a Macro button, hold Control key pressed, and select Macro button. Release Control key, and follow procedure:

1. Select a previously saved configuration file
2. Assign current devices to found devices in file
3. Click OK
4. Confirm Macro assignment

Note that Macro assignment is based a MAC address unique device identifier. So if device is moved within the architecture, recalling a Macro will apply its file configuration.

For a more detailed device assignment, see “Importing a configuration file” section of this document.

5.5 Status Bar



Status bar

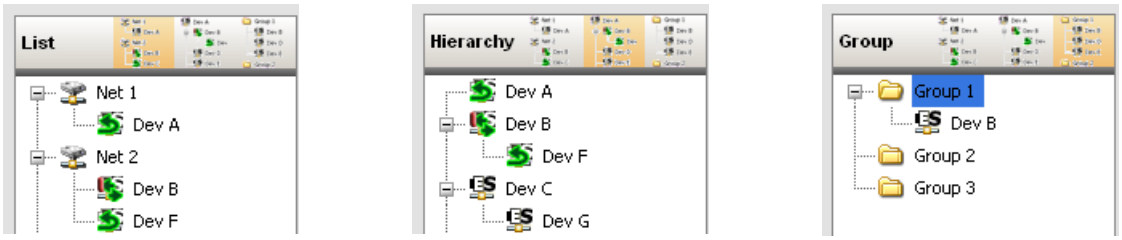
On bottom of window, status bar provides quick information on:

- Device/Group alias
- Device/Group type
- Current service version
- Current AVS-Monitor version

5.6 Networks

Tree Views tab selector allows user to select device from three different representations of networks:

- List: Classic display of all networks and devices
- Tree: Display devices in hierarchy view, only when hierarchy was found or built
- Group: Display devices in group view as defined by user



Network Tree Views available

By right clicking either on a network or a device, a popup menu will be displayed for user to set several parameters. Note that available options depend on network/device selection.

Menu	Submenu	Function
Network	Reset all	Reset all networks
	Build all hierarchy	Build hierarchy for selected network
	Remove network	Remove network from offline mode
	Clear all routing	Mute all EtherSound channels
	Force to mono dir	Force all devices to mono dir mode
	Force to ring mode OFF	Force all devices to be in normal mode
	Rename	Rename network
Device	Rename	Rename device
	Start of BiDir Loop	Set device as start of Bi-Dir loop
	End of BiDir Loop	Set device as end of Bi-Dir loop
	Write to Nonvolatile Memory	Write all device parameters to its Nonvolatile memory (Write to all devices when network is selected).
	Restore from Nonvolatile Memory	Write all device parameters to its Nonvolatile memory (Restore from all devices when network is selected).
	Reset device	Reset device to restore default parameters
Group	Group Name	Add/Remove device to/from group
Ring	Ring Active	Checked if device is in ring mode
	Preferred PMaster	Set device as Preferred Primary Master

When a group is selected, dedicated popup menu is displayed.

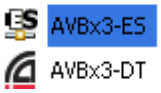
Menu	Function
Remove all groups	Remove all defined groups
Add group	Add a new group
Rename group	Rename selected group
Remove group	Remove selected group

List and Tree view uses icon representation for devices that allows user to quickly see current device status. Device status icons are:

- Network is connected
- Network is disconnected
- Network if in ring mode, but ring is open
- Network is in ring mode, ring is closed
- Device is connected
- Device is disconnected
- Device is hardware configured (Routing can't be changed via ESMonitor)
- Device is connected, set to Bi-Directional mode and within a loop
- Device is connected, set to Bi-Directional mode and is last in the loop
- Device is connected, set to Bi-Directional mode and is first in the loop
- Device is connected, but parameters are still unknown

- Red dot indicates that an error occurred on device (Upstream or Downstream integrity flaw)

Device protocol can be easily identified through its icon:



EtherSound device

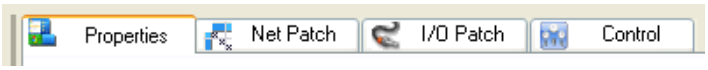
Dante device

Note about ring mode:
When network is set in ring mode, Preferred Primary Master device is identified by being the device in bold. In the following sample, **Device B** is the Preferred Primary Master

EtherSound network in ring mode sample

5.7 Tab selection

On right side of interface, user is able to select property page, routing page or control page if available. All pages are described in documentation herein after.



Tab pages button

- Properties: quick summary of device global information
- Net Patch: grid control for smart EtherSound Channel assignment
- I/O Patch: EtherSound Channel assignment for selected device
- Control: displays advanced properties for selected device if available

For some devices, an additional tab selection might appear to provide advanced control properties such as Matrix Routing, AD8HR Remote control …

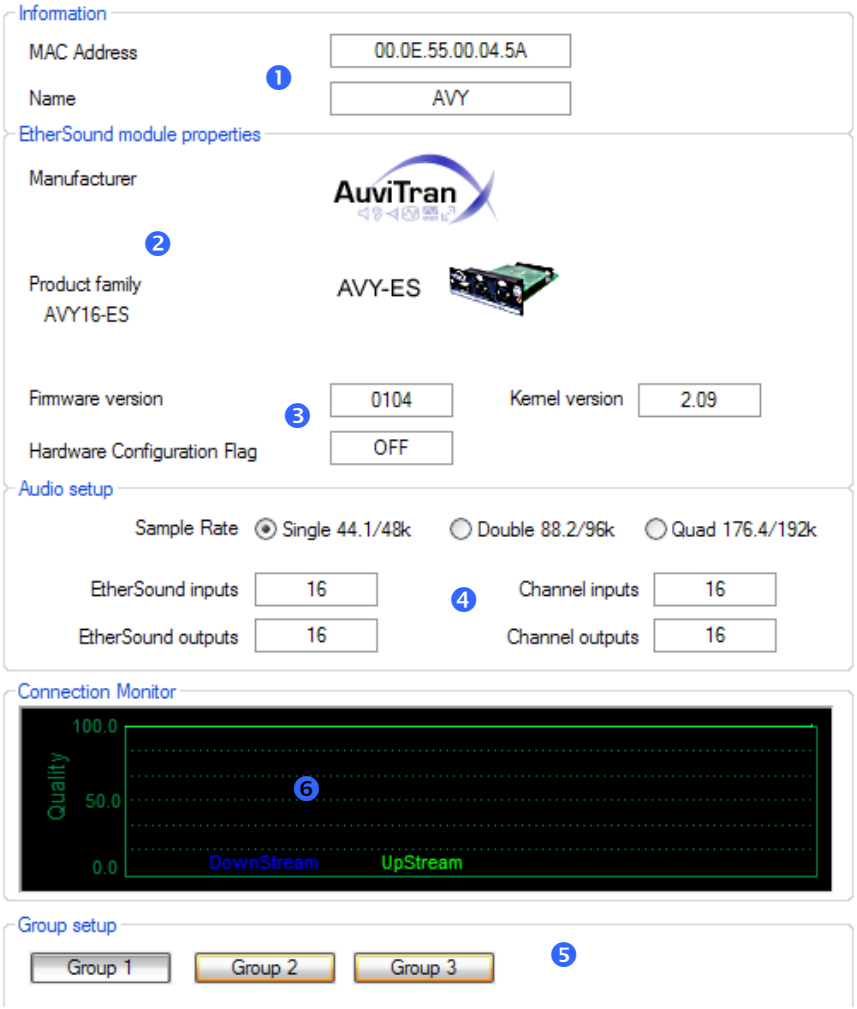
5.8 Property Page

Property page gives to the user a quick look over several device parameters. On network selection, only Information group is visible. Disconnection from server will be displayed in this control page.

5.8.1 Device information

Among all device information, user will find:

- ❶ MAC address and alias
- ❷ Manufacturer and product family of device
- ❸ Current status of hardware configuration (device firmware version, EtherSound kernel version and audio routing lock status)
- ❹ Number of inputs and outputs and current sample rate
- ❺ Group setup (check buttons to enable/disable device belonging to group)
- ❻ Network integrity monitor

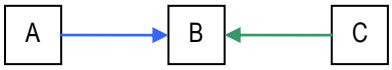


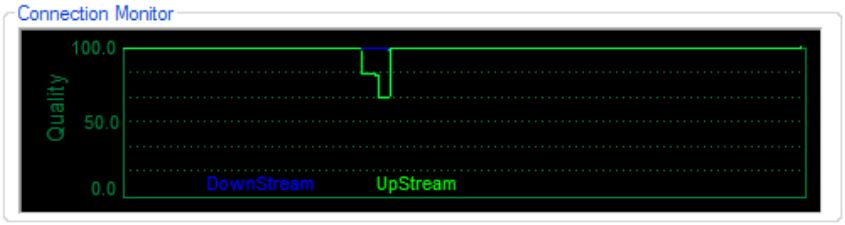
Properties page overview

5.8.2 Network integrity diagnosis

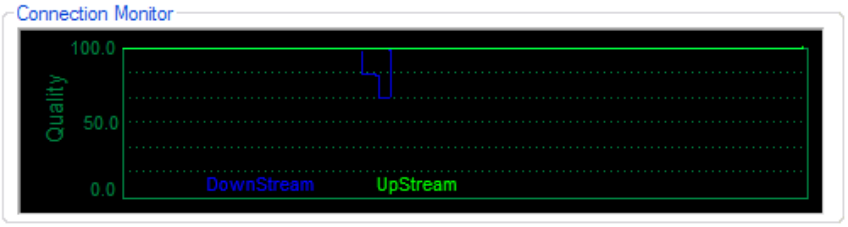
Note on Network integrity monitor: Graph displays uses two colors to present EtherSound integrity for device. This graph must be at 100.0 all time. Any drop means that errors were encountered.

Integrity checking sample for device B:





Green drops means that errors occurred between devices B and C.

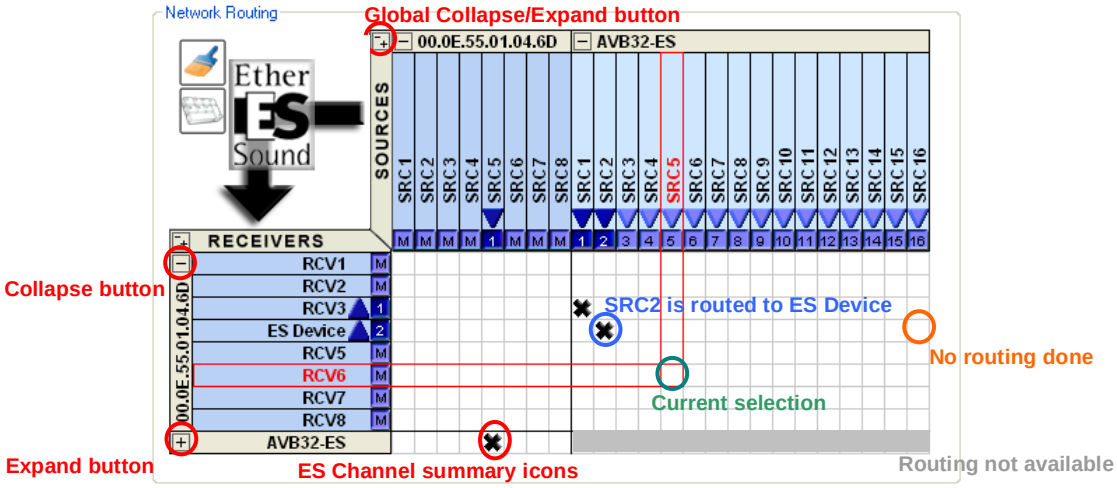


Blue drops means that errors occurred between devices A and B.

5.9 Network Routing Page

5.9.1 Overview

Network routing page gives the user the ability to directly assign a device input to a device output. Software will perform automatically, if possible, the EtherSound sub-routing needed to match user desire. If required and available, bi-dir mode will be set on devices by software.



Network Routing page overview

5.9.2 Icon summary

Different icons give a quick overview of current routing:

- Routing available
- Indirect routing available
- Routing unavailable
- Routing performed directly between devices
- / Routing performed through AVM500-ES
- AVM500-ES internal routing available
- AVM500-ES internal routing performed

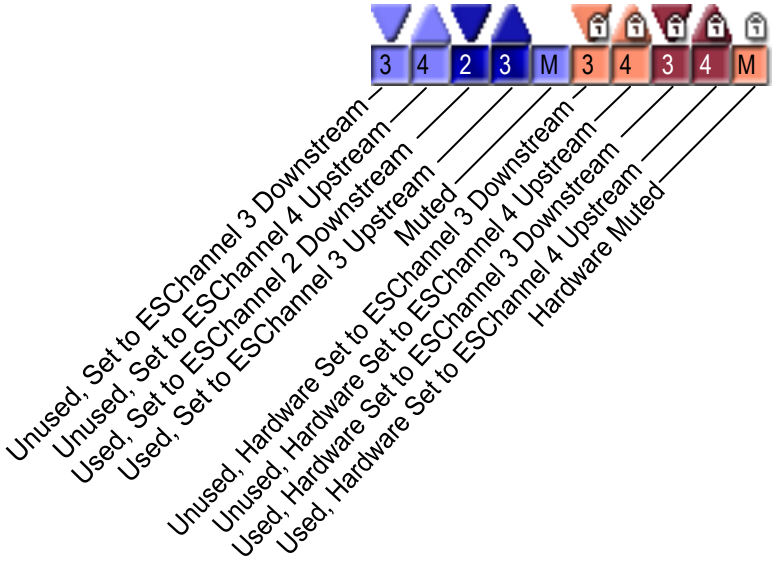
Icons turn into gray when device is folded and not fully patched.

Note that all grids can be grayed if hierarchy is not known, or not yet detected.

5.9.3 NetPatch actions

Thanks to NetPatch user can:

- Routing: It is simply done by left clicking in the grid while highlighting desired input and output.
- Un-routing: Left clicking on a square where black cross is displayed will un-route output from input.
- Direct ES Channel assignment: Left click on summary icons allows user to directly set ES Channel to an input or output.
- Expand/Collapse: To simplify viewing, left-click on "-" button near device name, or directly on device name if too short, will collapse all inputs or outputs from device. To see full device inputs or outputs, just left click on device name to expand it again. When collapsed, routing is not available for device but a summary is displayed to see if routing is done on device.
- Setting a new alias for a device, or an input/output: It is done by right-clicking on the correct row or line. A window will appear to set new alias.
- View simplified icons next to input/output alias. Icons allows user to quickly view current EtherSound assignment. To directly assign a new EtherSound channel, left click on icon to popup a window to set EtherSound Channel.


3 4 2 3 M 3 4 3 4 M
Unused, Set to ESChannel 3 Downstream
Unused, Set to ESChannel 4 Upstream
Used, Set to ESChannel 2 Downstream
Used, Set to ESChannel 3 Upstream
Muted
Unused, Hardware Set to ESChannel 3 Downstream
Unused, Hardware Set to ESChannel 4 Upstream
Used, Hardware Set to ESChannel 3 Downstream
Used, Hardware Set to ESChannel 4 Upstream
Hardware Muted

Previous schematic summarizes different icons and colors for each device input or output available through NetPatch. This allows user to have a quick view of channel used without the need to check this information in the I/O Page.

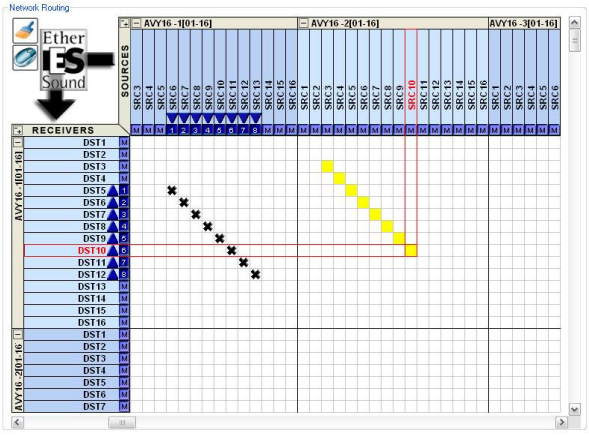
5.9.4 NetPatch control

A simple option is available through the NetPatch interface:

- Clean patch: Automatically mute EtherSound channels unused

5.9.5 Multiple routing in one action

Multiple routing can be performed in one action, by holding down “shift” key, and holding down left button to select multiple routing. Selection will turn yellow to show multiple routing. If full selection is already routed, action performed will be unrouting, otherwise software will try to route selection. This function is only available with mouse control.

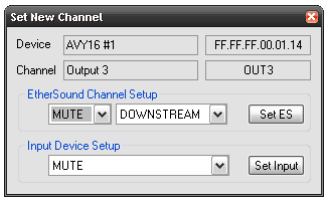


Multiple routing selection mode

5.9.6 Direct EtherSound assignment

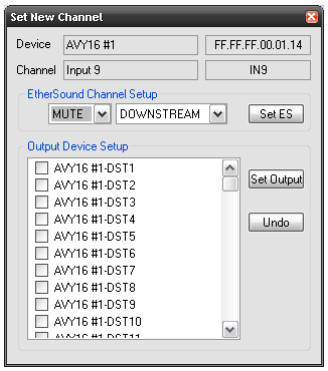
Through the NetPatch, user can also directly assigned EtherSound channels via dedicated windows. These windows are available by left clicking on simplified icons.

- Device output window



On top of window presents current device output assignment.
User can also set directly EtherSound channel by selecting EtherSound channel and direction, and click on “Set ES”.
Or user can also set directly Device input and click on “Set Input”. NetPatch will assign both channels if a patch is available.

- Device input window



On top of window presents current device input assignment.
User can also set directly EtherSound channel by selecting EtherSound channel and direction, and click on “Set ES”.
Or user can also set directly Device outputs and click on “Set Output”. NetPatch will assign channels if patch is available.

5.9.7 NetPatch Routing Sample #1

This sample illustrates a simple EtherSound network architecture.

AVY16-ES100 is hosted in a Yamaha console.
AVKit-ES100 is hosted in a Yamaha AD8HR.
Two NXAMP are used for output.

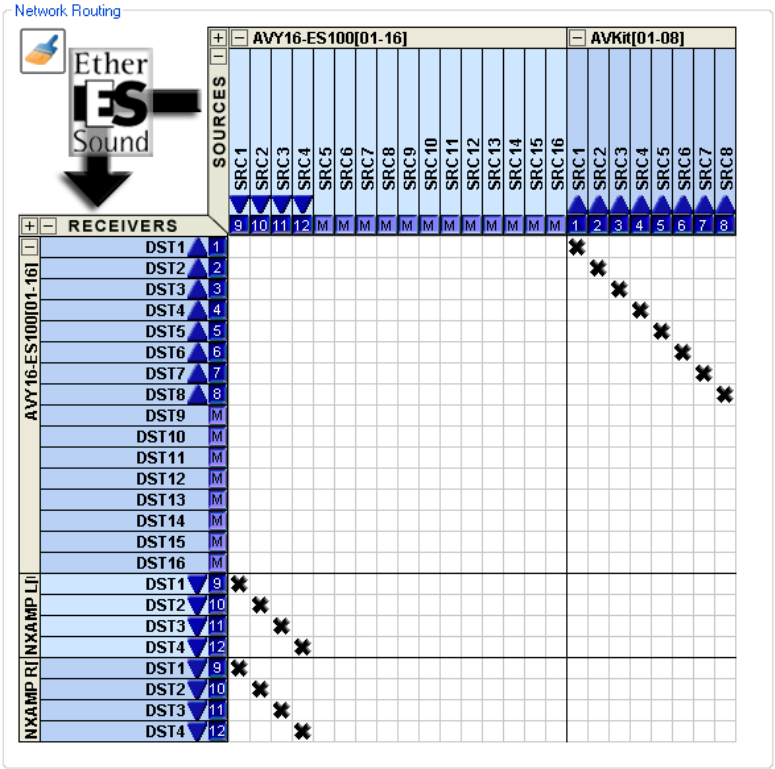
Routing will consist of

Assigning the 8 AD8HR channels to the console
Assigning 4 channel mixed by the console to the two NXAMP

NetPatch will automatically managed EtherSound assignment, just click on desired assignment:

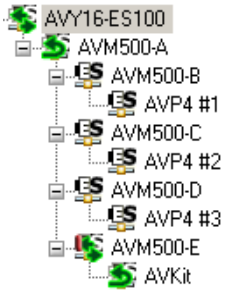
AVKit SRC1 to AVY16 DST1
AVKit SRC2 to AVY16 DST2…
AVY16 SRC1 to NXAMP#1 DST1
AVY16 SRC2 to NXAMP#1 DST2…
AVY16 SRC1 to NXAMP#2 DST1…

At the end, NetPatch will look like this:



5.9.8 NetPatch Routing Sample #2

This sample illustrates an EtherSound network architecture that includes the use of AVM500.



AVY16-ES100 is hosted in a Yamaha console.
AVKit-ES100 is hosted in a Yamaha AD8HR.
Three AVP4-ES100 are used for output.
AVM500 is used as a matrix to share EtherSound channels between ports.

Routing will consist of

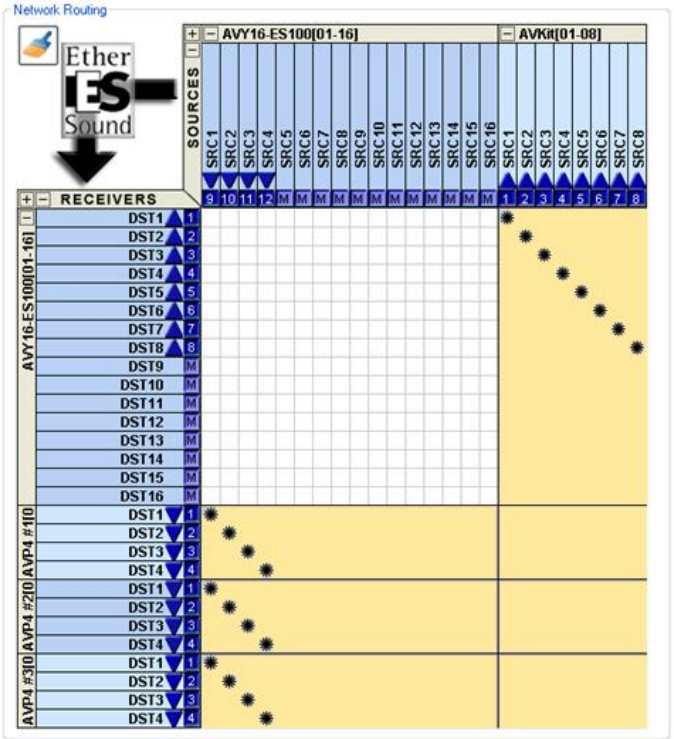
- Assigning the 8 AD8HR channels to AVY16-ES100
- Assigning 4 Channels from AVY16-ES100 to AVP4 #1
- Assigning 4 Channels from AVY16-ES100 to AVP4 #2
- Assigning 4 Channels from AVY16-ES100 to AVP4 #3

NetPatch will automatically managed EtherSound assignment, just click on desired assignment:

- AVKit SRC1 to AVY16 DST1
- AVKit SRC2 to AVY16 DST2.. (Up to SRC8/DST8)
- AVY16 SRC1 to AVP4 #1 DST1
- AVY16 SRC2 to AVP4 #1 DST2 (Up to SRC4/DST4)

Perform the same for AVP4#2 and #3

NetPatch will automatically build internal matrix patch and additional routing to match user request. After this, NetPatch will look like this:



5.10 Routing Page

Routing page allows user to select EtherSound channel for each input and output (when available) of selected device. Routing page is divided in two main parts.

Top bar

Via top bar, user can change device BiDir settings, assign all inputs/outputs, lock or mute device by software.

Global functions

- Show alias: when checked, grid show outputs/inputs aliases
- Clear All: mute all device outputs/inputs in one click

BiDir Status

- Bi-Directional status icon: present the current device status graphically
  - Device is within a bi-directional loop
  - Device is last of bi-directional loop
- Start Loop: set device as a start loop device
- End Loop: set device as an end loop device

Warning: Bi-directional loop may not contain any switches. Bi-directional is only usable within a daisy chained devices. As well as inserting a mono directional device (without bi-directional capability) within a bi-directional loop may result in unpredictable behavior of device and software.

I/O Channel Assignment

- Clear: mute all outputs in one click
- Set same: set all outputs to same selected EtherSound channel
- Start from: set inputs/outputs increasingly to start with selected EtherSound channel
- End to: set inputs/outputs decreasingly to end with selected EtherSound channel

Use Output/Input and Down/Up to select appropriate channels and direction when using channel assignment functions. Note that “Set same” function is unavailable when Input is selected.

Session function

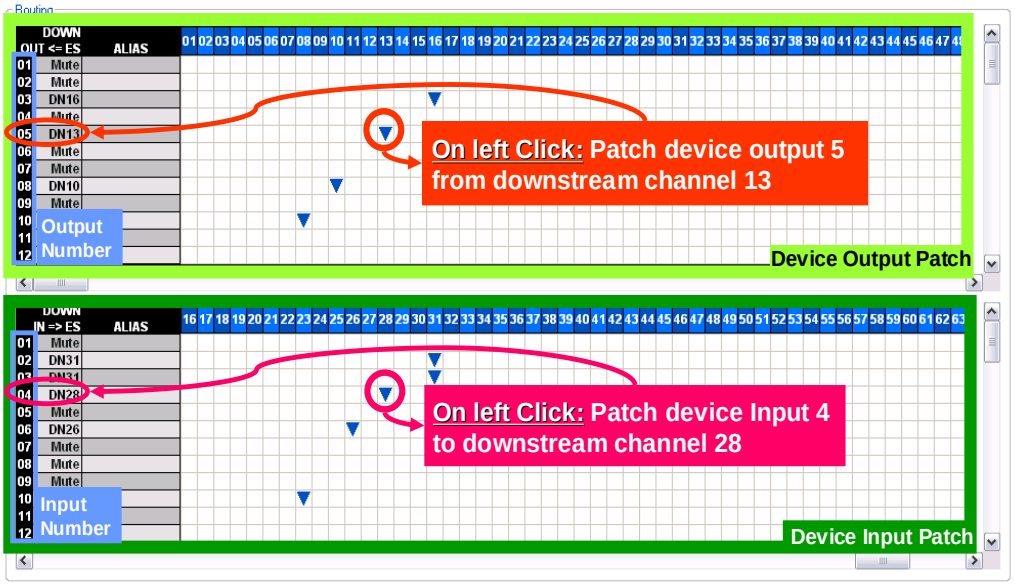
- Lock IN: when checked lock inputs by software for this session only
- Lock OUT: when checked lock outputs by software for this session only
- Mute IN: when checked mute inputs for this session only, when unchecked revert to previous status
- Mute OUT: when checked mute outputs for this session only, when unchecked revert to previous status

Routing grid

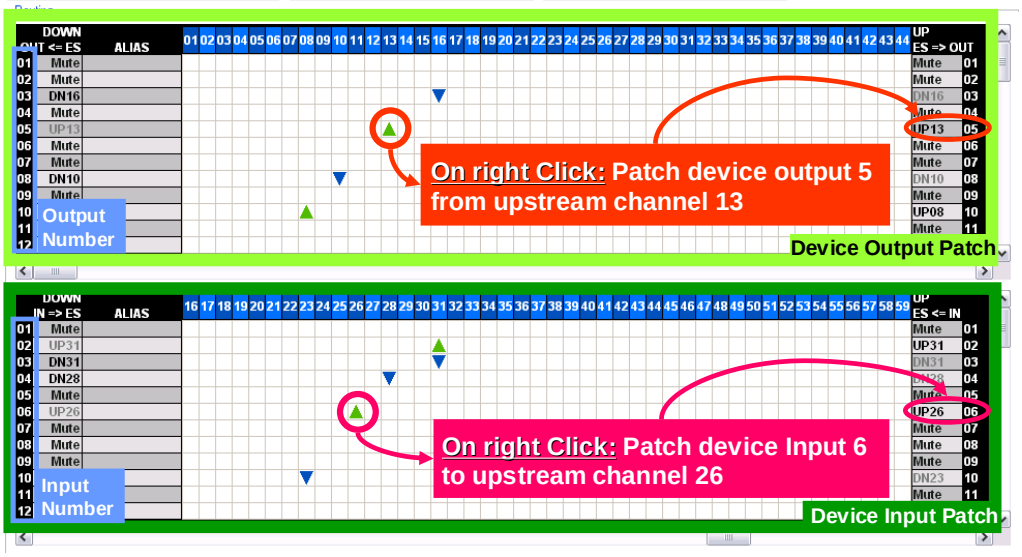
Channel assignment enables user to quickly set all inputs or outputs (depending on which channel is selected) to same EtherSound channel, starting from selected EtherSound channel or ending to a specific EtherSound channel. You can also mute all inputs or outputs of selected device using Mute buttons.

On left side of grid, you can set aliases for each outputs and inputs of device. Thanks to this feature, you will find easily and quickly what is connected to your different EtherSound devices.

Thanks to the grid, you can directly assign EtherSound channel to input or output of device by a simple click on the desired patch. Left click allows you to set for downstream, while right click allows you to set upstream EtherSound channel (only bidirectional device when available).


On left Click: Patch device output 5 from downstream channel 13
Output Number
Device Output Patch
On left Click: Patch device Input 4 to downstream channel 28
Input Number
Device Input Patch

Routing page overview for Mono directional device


On right Click: Patch device output 5 from upstream channel 13
Output Number
Device Output Patch
On right Click: Patch device Input 6 to upstream channel 26
Input Number
Device Input Patch

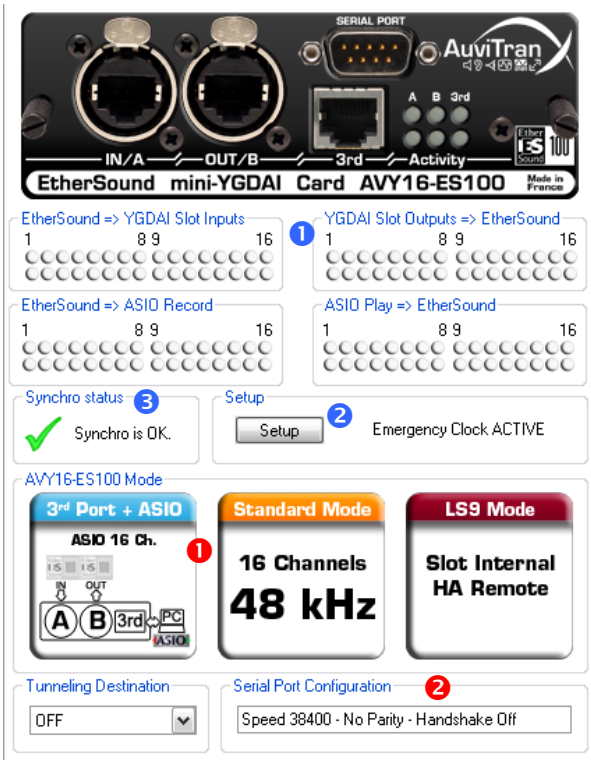
Routing page overview for Bi directional device

5.11 Control Page

Control page aspect depends on selected device. When available, user gets access to dedicated functionality of device. Refer to the specific user's manual device for more info about dedicated function features and behavior. Control pages for AuviTran products are summarized herein the document. For complete documentation, or other manufacturer products, please refer to dedicated product User's Manual.

Note that screen capture might not up to date as software is designed to control most recent device feature and still being compatible with older device version.

5.11.1 AVY16-ES100 Control Page



AuviTran AVY16-ES100 page overview

The AVY16-ES100 Control page provides:

- ❶ Signal/Clips LEDs for each input/output
- ❷ Device option setup with dedicated interface
- ❸ Synchronization status with the host Console or Mixing-Engine.

But it also allows user to select

- ❶ YGDAI Mode: Switch AVY16-ES100 in 8 or 16 channels bus mode for Yamaha compatibility, and manage 48k/96k mode.
- ❷ Serial port configuration.

5.11.2 AVBx3 Control Page

AVBx3 page overview

The AVBx3 Control page provides:

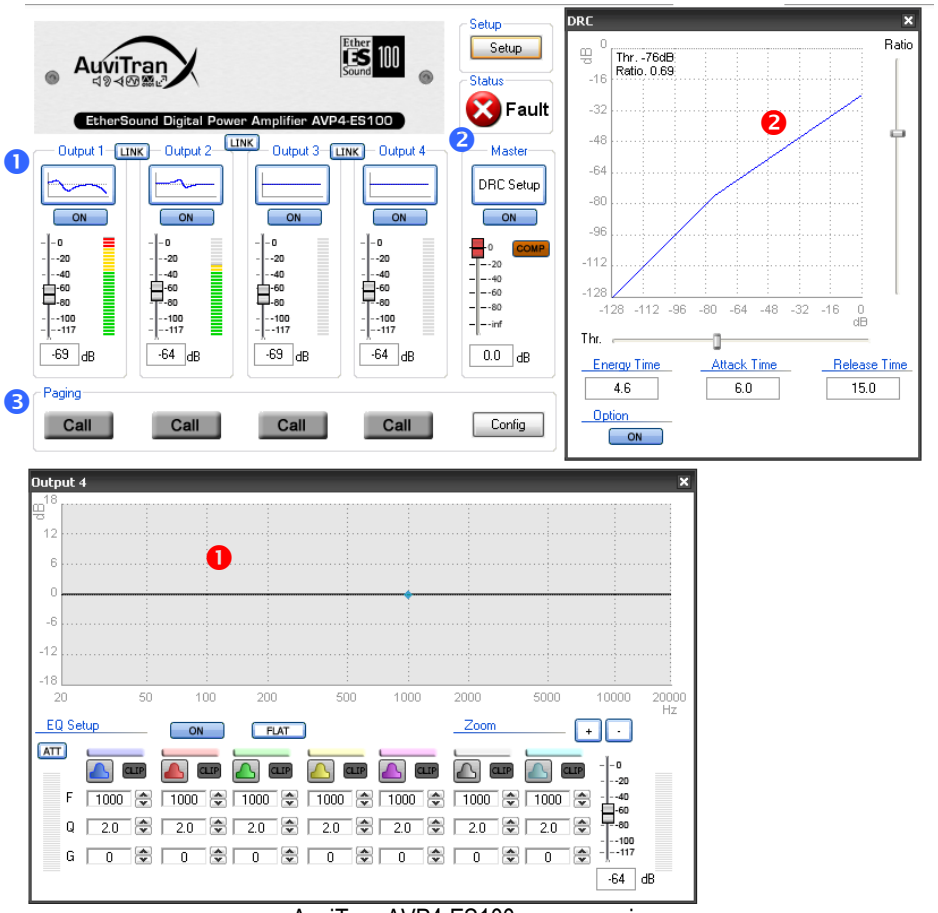
- 1 GPIO status and control
- 2 Clock status
- 3 Setup window access

But it also allows user to setup all available slots:

- 1 Slot 1 view.
- 2 Slot 2 view.
- 3 Slot 3 view.

Depending on slot configuration, direct access to parameters is allowed. Click on slot image brings the dedicated advanced setup window if available.

5.11.3 AVP4-ES100 Control Page



AuviTran AVP4-ES100 page overview

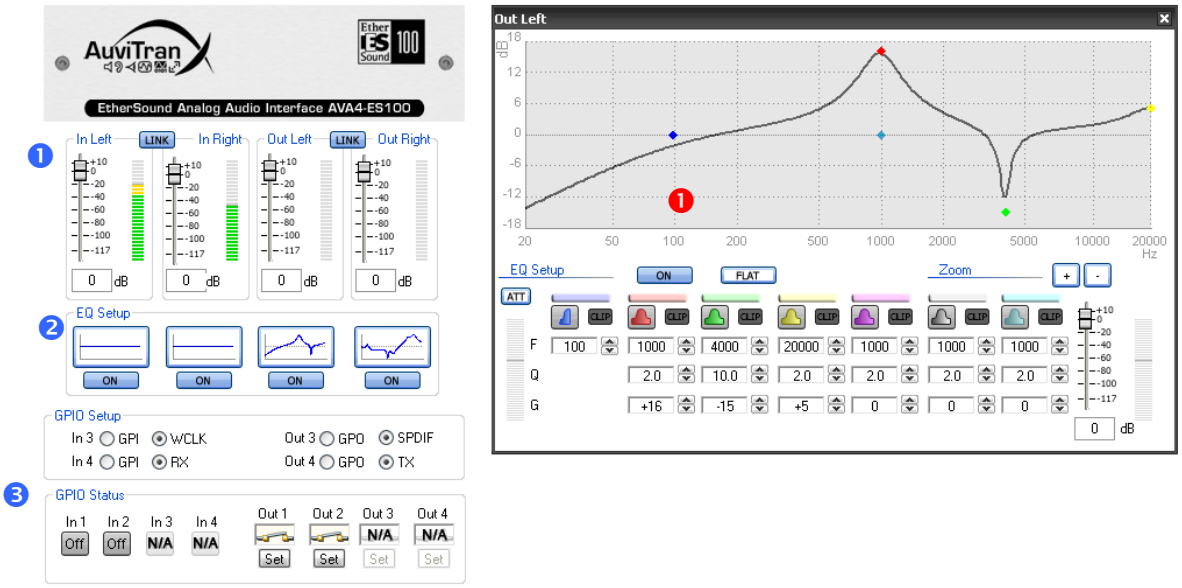
The AVP4-ES100 Control page provides:

- ❶ Full control for 4 Outputs and Master control.
- ❷ Complete device setup and status feedback.
- ❸ Paging status and setup.

But it also allows user to setup

- ❶ Equalization per channel.
- ❷ DRC setup.

5.11.4 AVA4-ES100 Control Page



AuviTran AVA4-ES100 page overview

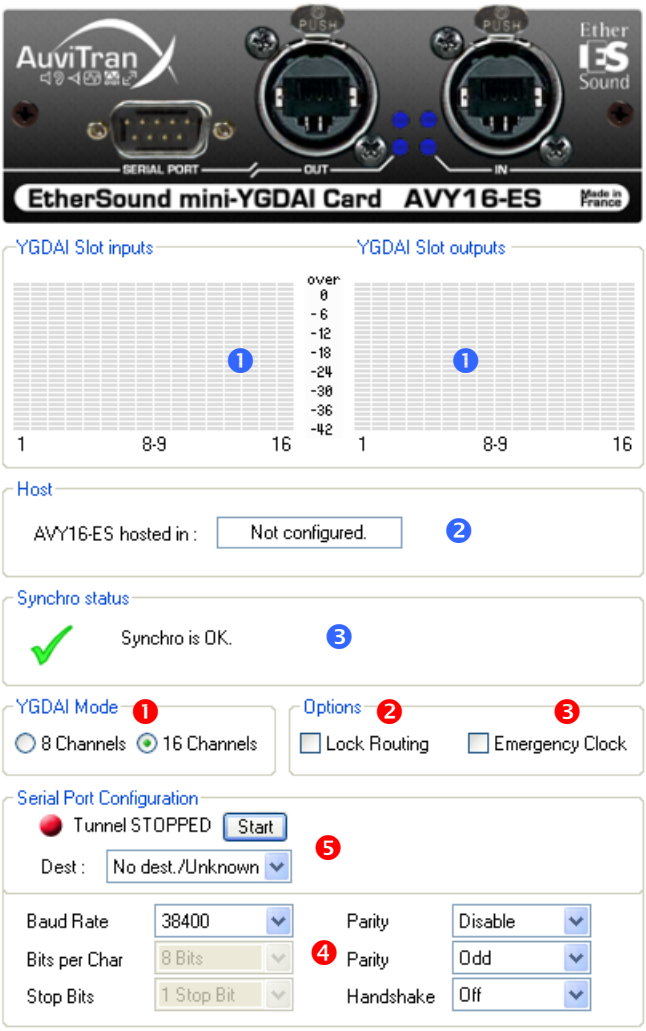
The AVA4-ES100 Control page provides:

- (1) Full control for 2 Inputs and 2 Outputs.
- (2) Quick EQ Setup overview and access.
- (3) GPIO Setup.

But it also allows user to setup

- (1) Equalization per channel.

5.11.5 AVY16-ES Control Page



AuviTran AVY16-ES page overview

The AVY16-ES Control page provides:

- ❶ 32 Vu-meters for each of 16 outputs and 16 inputs
- ❷ Host device for AVY16-ES
- ❸ Synchronization status with the host Console or Mixing-Engine.

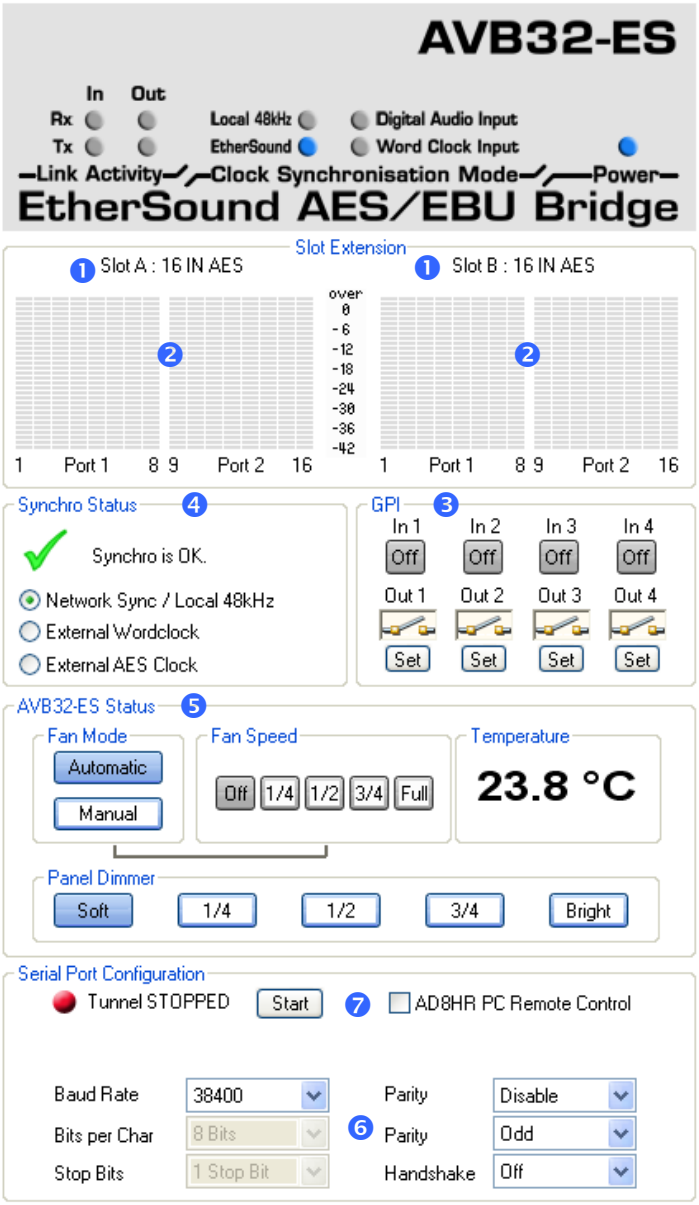
But it also allows user to select

- ❶ YGDAI Mode: Switch AVY16-ES in 8 or 16 channels bus mode for Yamaha compatibility.
- ❷ Lock routing: Use to lock current EtherSound audio routing.
- ❸ Emergency clock: When checked, host won't mute audio channels when cable will be unplugged.
- ❹ Serial Port configuration.
- ❺ Tunneling configuration when available: User can select target device, and Start/Stop hardware tunneling function.

Note that host device can only be found if MIDI is redirected to AVY16-ES slot. Once found, MIDI tunneling can be activated via appropriate push button. Note that MIDI tunneling will be active only if MIDI Drivers are correctly installed and set up in the Control Panel.

Hardware tunneling functionality will be described later in the document.

5.11.6 AVB32-ES / AVB32-ES100 Control Page



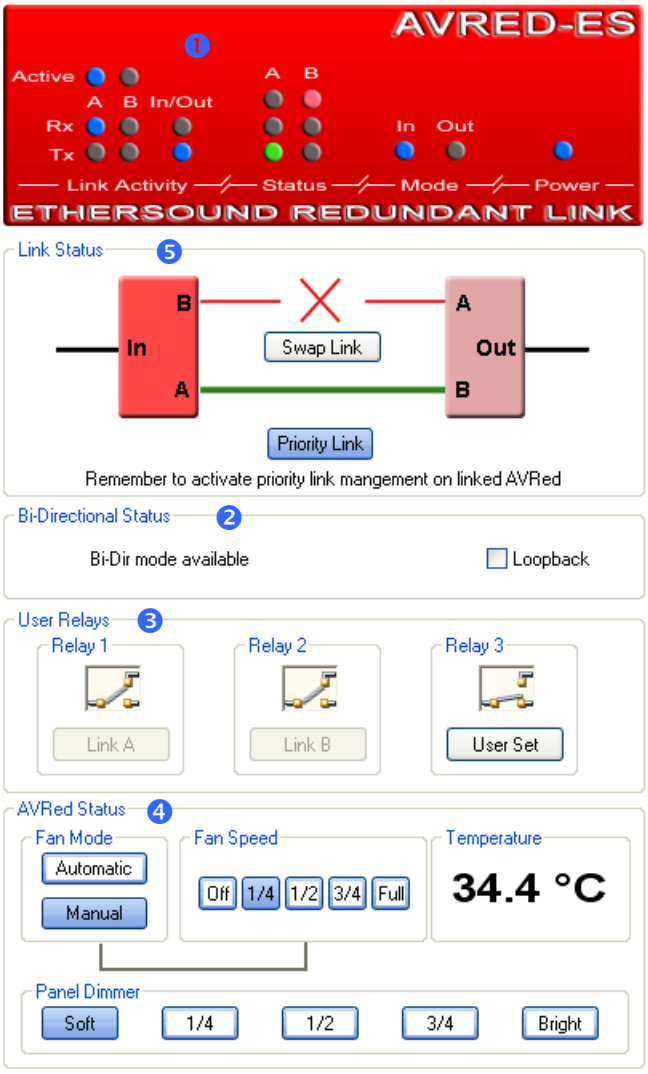
AuviTran AVB32-ES page overview

The AVB32-ES Control page provides:

- 1 Slot information
- 2 32 Vu-meters for each slots
- 3 Global Purpose Inputs controls
- 4 Synchronization status
- 5 AVB32-ES controls (Fan status and controls, panel dimmer and rack temperature)
- 6 Serial port controls
- 7 Hardware tunneling controls

Thanks to the AVB32-ES, user can remotely control from the PC AD8HR devices connected through the AVB32-ES serial port connector. Note that this feature is not available when hardware tunneling is set to ON. See hardware tunneling part of this document for detailed information.

5.11.7 AVRed-ES / AVRed-ES100 Control Page



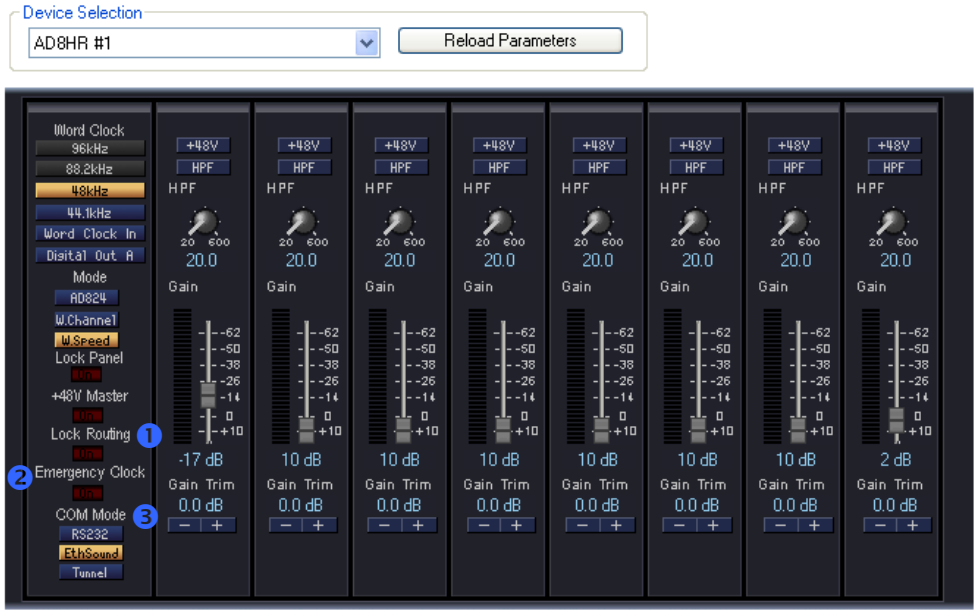
AuviTran AVRed-ES page overview

The AVY16-ES Control page provides:

- 1 Overview of AVRed status using a LED panel
- 2 Bi-Directional controls
- 3 User relays controls
- 4 AVRed fan and dimmer controls and status
- 5 Link status and controls

Swap link button allows user to change active link if possible.
If available, priority link allows user to set Link A to be used prior to link B.

5.11.8 AVKit / AVKit-ES100 Control Page



AuviTran AVKit page overview

The AVKit Control page provides:

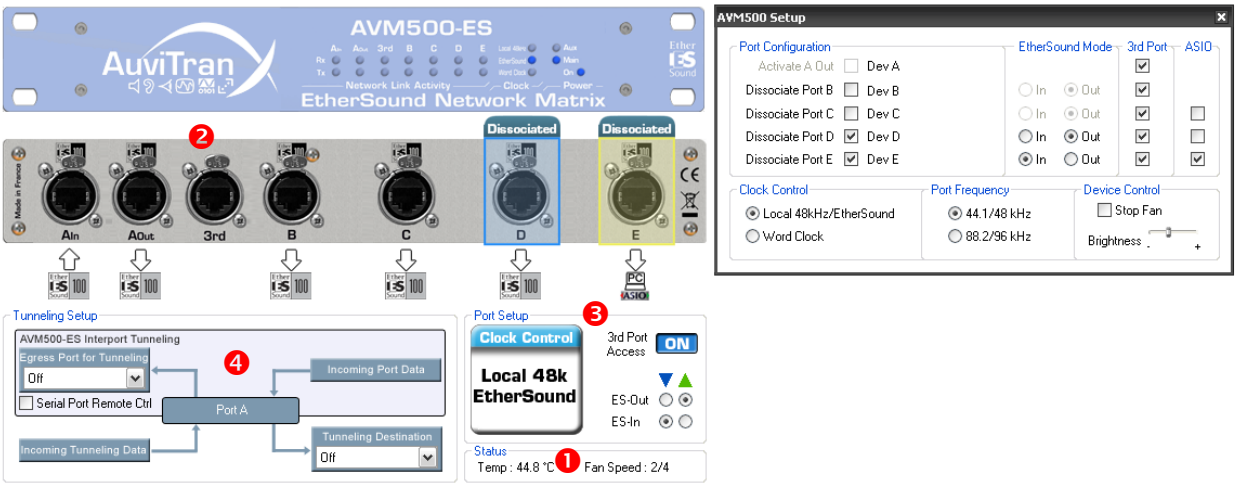
- Full control of AD8HR parameters
- Additional EtherSound functions
  - ❶ Lock EtherSound routing
  - ❷ Emergency clock management
  - ❸ Serial port management

Please refer to AD8HR documentation for a full description of AD8HR parameters.

Serial port management consists of three available configurations:

- Tunnel: Hardware tunneling is set on this device
- EtherSound: PC Remote control of AD8HR is set to ON (user can directly interact with AD8HR)
- RS232: AD8HR is controlled via its serial port

5.11.9 AVM500-ES Control Page



AuviTran AVM500-ES page overview

The AVM500-ES Control page provides:

- ❶ Current status of device.
- ❷ Port configuration.
- ❸ Advanced control configuration.
- ❹ Serial Port configuration.

Note that AVM500-ES Control page options might defer depending on Port selection.

5.11.10AVI64-ES Control Page

Depending on the host device, AVS-ESMonitor will display appropriate control page if AVI64-ES100 is hosted in:

- ❶ RME DMC842.
- ❷ RME Micstasy.
- ❸ RME ADI8-QS.

5.11.11 Other Control Page

AVS-ESMonitor provides also control page for:

- ► Camco Vortex
- ► Nexo NXAmp
- ► Nexo NX242
- ► Yamaha NAI48-ES
- ► Yamaha MY16-ES64
- ► Yahama DME4io-ES
- ► Yahama DME8o-ES
- ► Yahama DME8i-ES
- ► Yahama SB168-ES
- ► Yahama M7CL-ES48
- ► Digico ES8
- ► Digigram Aqonda 8
- ► Digigram Aqonda 16
- ► Digigram ES8in
- ► Digigram ES8out
- ► Digigram ES8mic
- ► Digigram ES881
- ► Digigram ES1241
- ► Digigram ES16161
- ► Digigram ES220
- ► Digigram LX Boards
- ► NetCira MS8orMS88(MI-6C)
- ► NetCira MS8orMS88
- ► NetCira ES1&2PRO
- ► NetCira ES1&2
- ► NetCira ES6300
- ► Pinanson ES-8In
- ► Pinanson ES-8Out
- ► Pinanson ES-8Mic
- ► Allen&Heath iLive surface
- ► Allen&Heath iDR mix rack A/B
- ► Innovason DO8X-ES
- ► Innovason DIO-ES
- ► Innovason DIO-8Out
- ► …

More information is directly available from each manufacturer.

6 AVS-MONITOR OPERATING MODES

6.1 Online/Offline mode

AVS-Monitor has two different operating modes:

- Online mode: based on connected devices
- Offline mode: based on virtual devices

Offline mode uses virtual devices. These virtual devices can be directly generated from your connected devices by switching to offline mode thanks to the appropriate icon, or generated using the offline editor which will be described later in this document.

While in Online mode, each action performed on device is done immediately, such as routing, or parameter change.
While in Offline mode, AVS-Monitor simulates each action performed on devices. When all actions are done, user can save configuration into file for future use such as applying on an existing EtherSound network.

6.2 Configuration files

AVS-Monitor allows user to export/import configuration files from his current network architecture. Exporting configuration allows user to send his configuration for applying on similar networks, offline editing, or analysis for instance.

Generated files contains all devices EtherSound information, as well as, enhanced information such as hierarchy (when available), and software version and parameters.

6.3 Exporting a configuration to a file

To export a configuration, user has to select “Save” or “Save as…” option from File menu. A Dialog box will prompt user for naming the file which will contains all information.

If hierarchy is unknown when exporting, a dialog box will prompt user to build manually the network hierarchy and redo the file export.

6.4 Importing a configuration from a file

To import a configuration, user has to select “Load” option from File menu. A Dialog box will prompt user for selecting the file which will contains all information.

In Offline mode, AVS-Monitor will import all devices contained within the configuration file. Thus, allowing user to interact with the virtually created network and devices as if all were connected.

In Online mode, AVS-Monitor will try to perform an automatic assignment between information contained within the file and currently discovered devices. A window will popup after allowing user to make modifications to current AVS-Monitor proposal.

For each device, 3 kind of parameters can be imported:

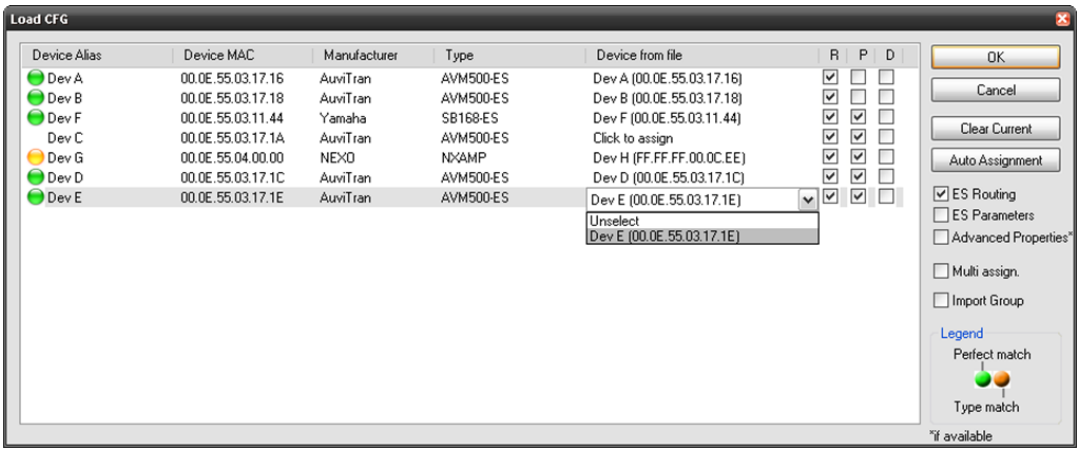
- ES Routing : EtherSound routing (R column)
- ES Parameters : EtherSound device parameter (P)
- Advanced Properties : Internal device properties

Import of internal device properties is only available for :

- AVKit-ES100
- SB168-ES
- AD8HR connected to AVB32-ES100 and NAI48-ES

When offline, these parameters can only be viewed.

Multi-assign option allows user to apply one device configuration from file to several connected devices.



Selection dialog after file import

On the previous sample, 7 devices were detected by AVS-Monitor.
DevA, DevB, DevF, DevD and DevE have been found to perfectly match from configuration file (Same product and MAC Address)
DevC has not been found in configuration file, and user has to select manually a device to assign.
DevG has been found to match DevH from configuration file (Same product type)

At any time, user can:

- Clear current assignment
- Redo an automatic assignment (erasing previous manual selection done)

When applying a configuration file, user can select what to apply

- ES Routing: EtherSound routing will be applied if checked
- ES Parameters: Devices properties will be applied (when possible) if checked
- Advanced Properties: Devices internal parameters will be applied (when possible) if checked

User can also choose to import group saved within the configuration file. If not, previously created group will be kept without any modification.

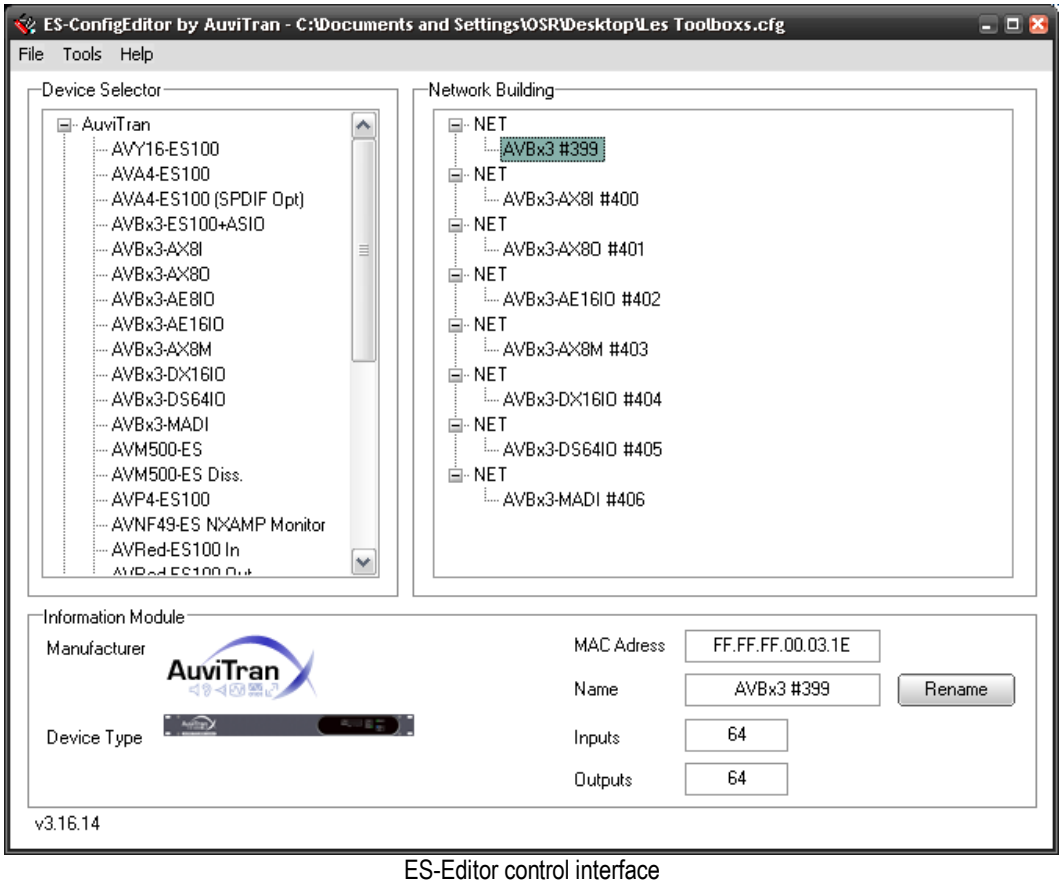
When done, user has to click OK to apply configuration from file to targeted devices. Clicking on cancel will perform nothing and devices will remain unchanged.

7 AVS-EDITOR

AVS-Editor is part of the AVS-Monitor software. This software allows user to build new configuration and edit previously saved configuration.

7.1 Main interface

This is the control interface of AVS-Editor.



ES-Editor control interface

Main interface is composed of:

- Menu: Configuration and network functions
- Device selector: All available devices for editing configuration
- Network building: Current configuration
- Information module: Information on currently selected device

7.2 Menu

Menu is organized that way:

Menu	Submenu	Function
File	New	Erase current configuration from memory, and start new session
	Load…	Load a configuration previously saved to a file
	Save	Save current configuration to opened file
	Exit	Exit ES-Editor
Help	About	Display ES-Editor version

7.3 How to build a new configuration

Building a configuration is done via drag and drop. User selects which device to add to your configuration from Device selector, and drags it to right place on the Network building side. Device will be automatically added to the configuration.

If device is dragged over an empty place, a new network will be created with device set as Primary Master.

In the bottom part of the interface, user can:

- Change device MAC Address
- Change device alias

7.4 How to edit a configuration

Editing a configuration is done by right clicking on devices, and using drag and drop. After successful loading a previously created file, Network building will be updated with data contained within the file.

Using drag and drop, user can move part of created EtherSound network from one place to another.
Right clicking on device will allow user to delete selected device, or delete selected device and whole its child.

7.5 How to use generated configuration

After successful building or editing configuration, user has to save it into a file by using the command “Save” from the file menu.

Afterwards, this configuration can be imported in AVS-ESMonitor both in online or offline mode.

Note that AVM500-ES exists in one single device with all ports associated, and as individual devices with dissociated port. AVM500-ES cannot be moved in architecture.

8 AVS-EVENT EDITOR

Since version 3.12, AVS-Monitor integrates an automated event management. Thanks to this function, automated script can be executed according to device status.

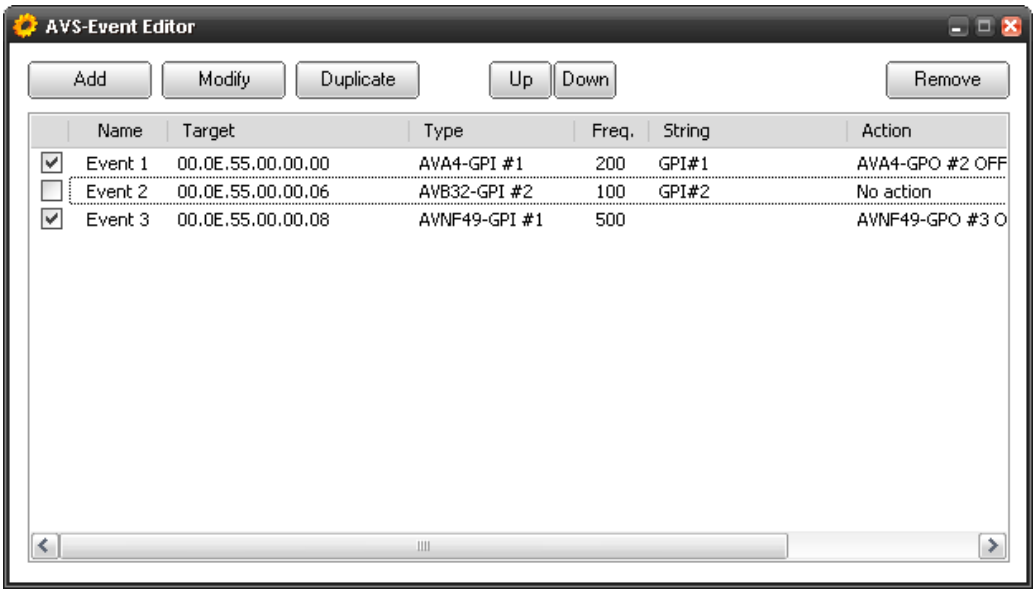
Event reacts to defined GPI/GPO status, or other advanced test (only available on purchasable version). Depending on test type, scripted command are executed on one or more devices.

8.1 Requirements

In order to be able to manage user defined events, AVS-Service has to be launched and computer must have access to appropriate devices. Meanwhile, AVS-Monitor is not required to run, ES-Service launch is mandatory as event are fully software managed.

8.2 Main interface

This is the control interface of AVS-Event Editor.



AVS-Event Editor Main interface

Thanks to this interface, user is able to directly managed events. Window provides direct access to:

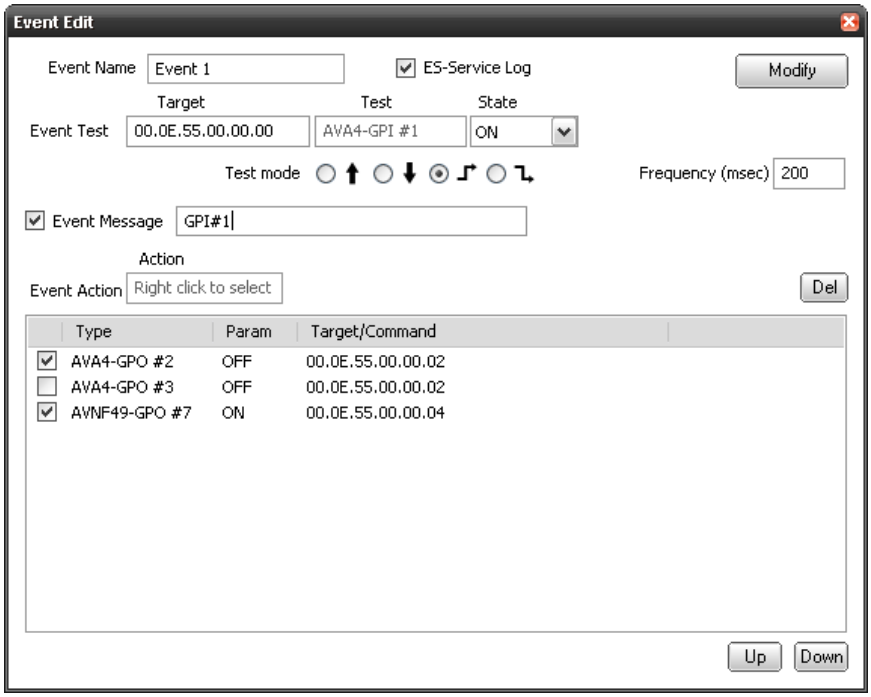
- Add an event
- Modify selected event
- Create a copy of selected event
- Move event Up/Down in the list
- Remove selected event
- Turn event On/Off

Event list present a summary of main event features:

- On/Off Status
- Event name
- Target device
- Test type
- Event pooling frequency
- Event message displayed in ES-Monitor if defined
- First action of script if available

8.3 Event creation/modification

Event creation or modification brings up a dedicated window that will allow user to fully set all event parameters.



AVS-Event Editor Creation/Modification window

In order to set/modify an event, user has to set all these fields:

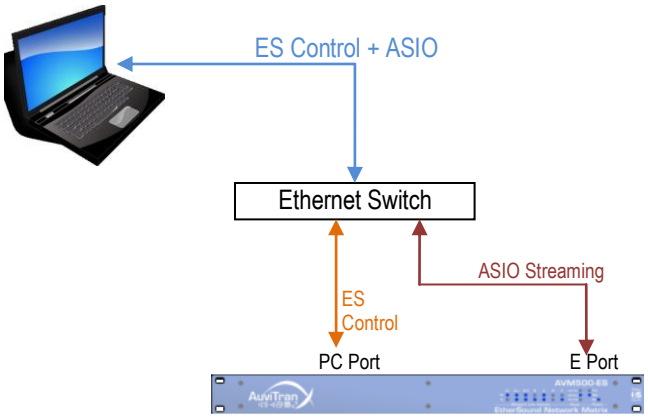
- Event name : Set name for this event
- AVS-Service Log : To automatically store an entry in the service log file if checked
- Target : Set MAC Address of target device to be tested
- Test : Select which parameter to test among available
    - AVA4-ES100 GPI / GPO
    - AVP4-ES100 GPI/GPO
    - AVB32-ES100 GPI/GPO
    - AVNF49-ES100 GPI/GPO
    - Audio Toolbox AVBx3 and AVBx7 GPI/GPO
    - Advanced test (only available on option)
- State : Parameter state to test or advanced test parameter
- Test mode
    - Execute script when test is true and as long as it remains true
    - Execute script when test is false and as long as it remains false
    - Execute script only once when test becomes true
    - Execute script only once when test becomes false
- Frequency : Test frequency in msec
- Event Message : Displayed message in ES-Monitor if checked
- Action : Script command that will be executed

Script commands can be enable/disable, and commands sequence can be modified by moving up/down selected event thanks to Up/down button. Using Del button will remove selected script command.

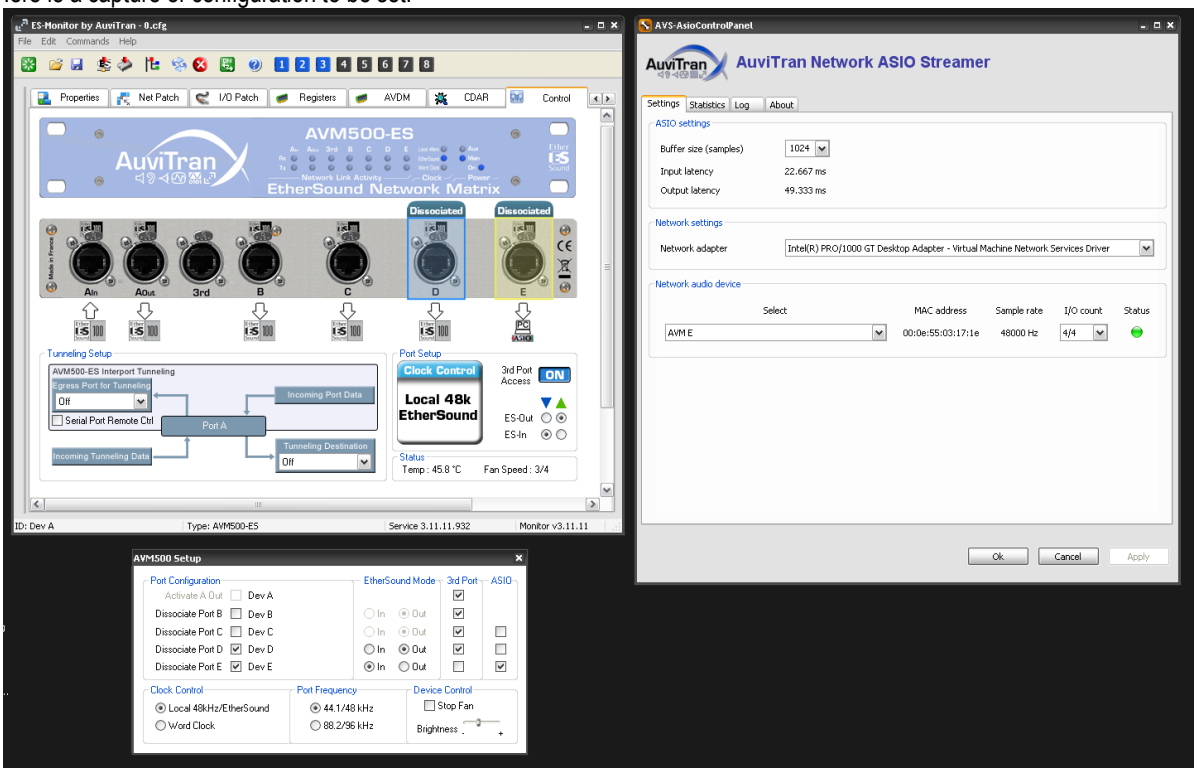
9 NOTE ON USING ASIO WITH AVM500-ES

When ASIO Mode is activated on Port C,D or E on AVM500-ES, remember to deactivate 3rd port access if computer running AVS-Monitor is the same computer that will be used for ASIO Streaming. Otherwise, AuviTran Network ASIO Streamer will not be able to find ASIO target device.

This happens in this configuration:



Here is a capture of configuration to be set:



10 TUNNELING ON ETHERSOUND

10.1 "Hardware RS232 Tunneling" function

The "Hardware RS232 tunneling" is disable by default.

If the AVY16-ES is the primary master (i.e. it is the first device of an EtherSound network), hardware RS232 tunneling can be set from this AVY16-ES to another remote device of the network. When started an internal hardware process will automatically transmit the data received from the local AVY16-ES RS232 to the remote device RS232 and will receive the incoming data from the remote RS232 to the local RS232.

This function is very useful to remotely control from a digital mixing console, using only EtherSound connection, a set of AD8HR connected to EtherSound by AVB32-ES or by AVKit-ES for AD8HR. The digital mixers that can manage AD8HR from a remote serial connector are: PM5D, M7CL, DM2000, DM1000 and DME64N/24N.

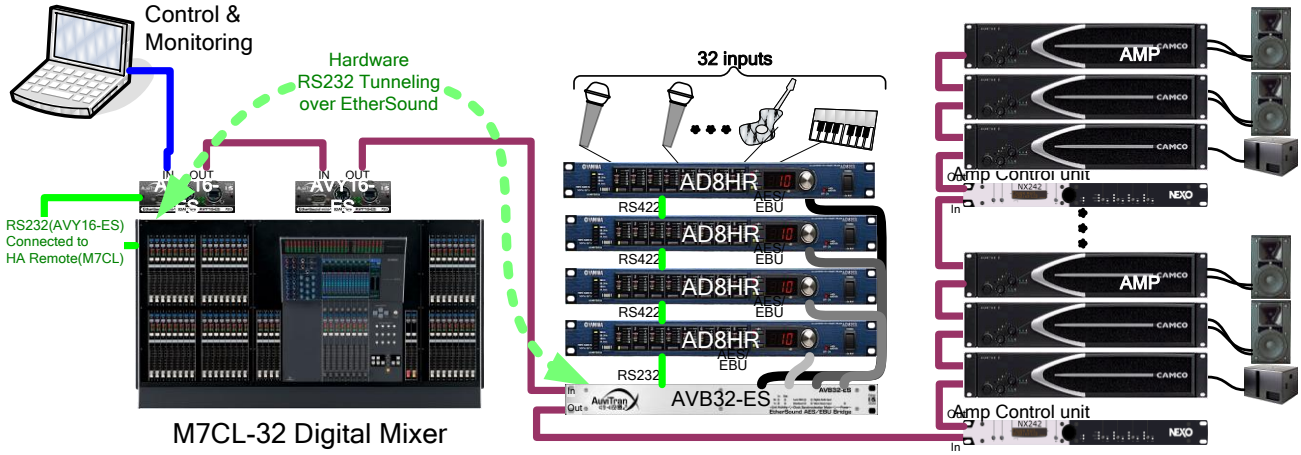
The procedure to create a Hardware tunneling is the following:

1. Set the speed and configuration of the remote device RS232 (if it is an AVKit-ES for AD8HR, it is done automatically).
2. Press the "Stop" button of the "Hardware RS232 tunneling" area to stop the tunneling on your Primary Master AVY16-ES if it is working.
3. Select the remote device in the combo box of the "Hardware RS232 tunneling" area on your Primary Master AVY16-ES.
4. Press the "Start" button of "the Hardware RS232 tunneling area".
5. The red light on the left of "Start" button becomes Green to specify that the tunneling is working and the "Start" Button becomes a "Stop" Button.

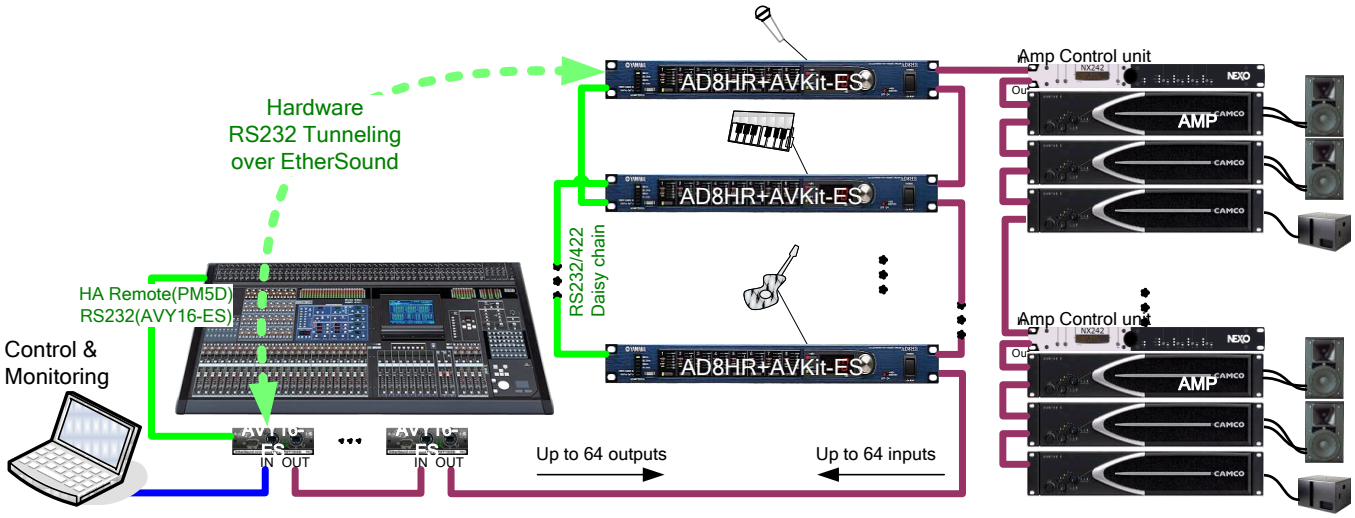
Notices:

- Hardware RS232 tunneling means that the tunneling between the 2 RS232 (local-remote) is performed even when the controlling PC with AVS-Monitor is disconnected (i.e. It is the AVY16-ES hardware which manages the tunneling not the PC software).
- Due to specific and intensive EtherSound hardware management, only AVY16-ES, AVKit-ES for AD8HR and AVB32-ES devices and compatible AuviTran devices can be used for hardware RS232 tunneling.
- AVY16-ES must have a firmware greater than or equal to 0x101. Upgrade it if it is not the case (check for new firmware on AuviTran web site www.auviTran.com).
- AVKit-ES must have a firmware greater than or equal to 0x201. Upgrade it if it is not the case (check for new firmware on AuviTran web site www.auviTran.com).

Example of use: Remotely control 4xAD8HR connected to an AVB32-ES from a M7CL-32 desk fader.



Example of use: Remotely control AD8HR+AVkit-ES from PM5D desk fader.



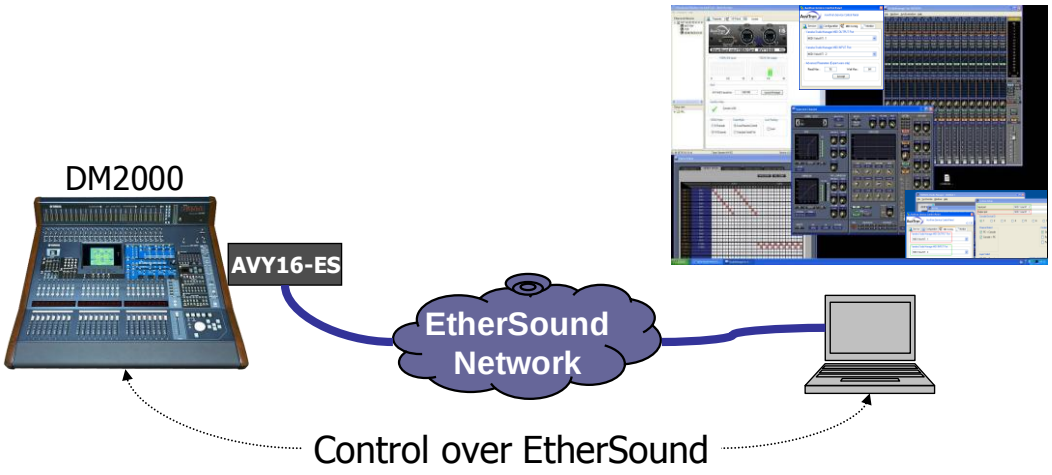
Notices:

Refer to appropriate user's manual for correct wiring of serial cable to use with your Yamaha mixing console.

10.2 Remote Control over EtherSound via YGDAI Midi

The AVY16-ES provides a local YGDAI midi interface to its host console which can be remotely link to a build-in AVS-Monitor midi driver.

Today, the local YGDAI midi interface is working on the following Yamaha devices: DM2000, DM1000, 02R96, 01V96.



Note that this function is only available on AVY16-ES device. AVY16-ES100 is not compatible with this feature.

Before using remote control over EtherSound few conditions must be respected:

1. The host console must been set[1] properly to be controlled via a slot where an AVY16-ES has been connected to.
2. The midi parameters in EtherSound control panel must be set[2] (usually default setting is ok).
3. The specific application[3] which manages your digital console such as Yamaha Studio manager must be installed first.

If the 2 first conditions are respected, ESMonitor will display the console name in the field “AVY16-ES hosted by” and a button “Launch Manager” appears on the control page for the AVY16-ES. This means that the AVY16-ES selected is in the slot defined by the console to be the “midi to host” and that you can remotely control the console.

ESMonitor will display “Not configured” for an AVY16-ES if the YGDAI slot in which the AVY16-ES is put, does not support midi interface or has not been defined in the host console to be “midi to host”.

Notice: Even if a console could accept multi AVY16-ES, only one AVY16-ES can be defined to control the console

If ESMonitor displays a button “Launch Manager” on the control page, you can click on it to launch the Yamaha application which will remotely control the host device.

If it is the first time, ESMonitor will ask you to provide the link to the application (i.e. the access to the Yamaha application software such as Studio Manager).

After the Yamaha application such as studio manager is running, you have to set the Application midi link to “Midi Yoke NT: 2” for input port and “Midi Yoke NT: 1” for output port (if you let the default configuration).

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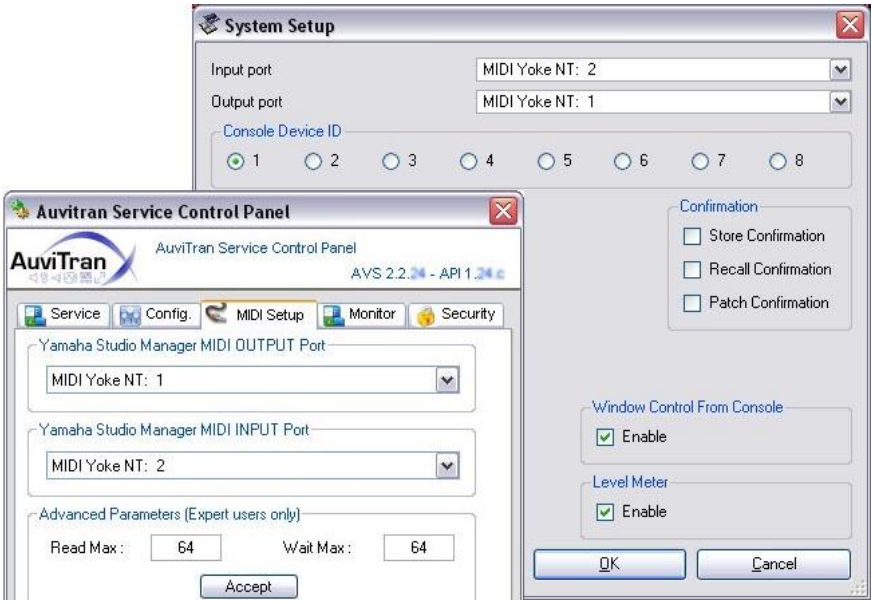
[1] Please refer to your Yamaha Console User’s manual for further information about the use of Yamaha console features and settings.

[2] Please refer to your ESMonitor User’s manual for further information about the use of ESMonitor functions and settings

[3] Please refer to your application User’s Manual for installing the application software.

Sample below shows a working setting in Control Panel and Yamaha System Setup (screen capture might not be up to date depending on software versions):



You can now start the configuration of your network and enjoy the functionalities of AuviTran's AVY16-ES.

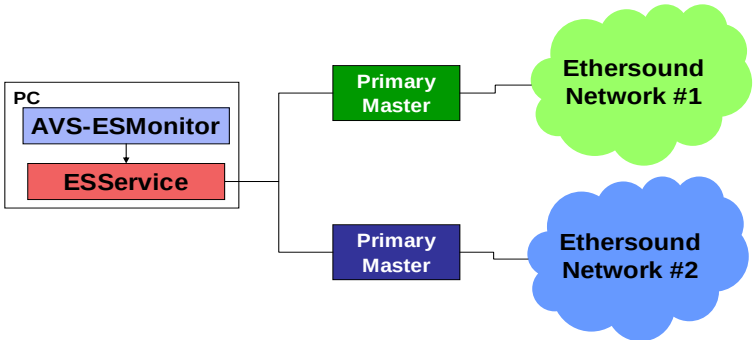
11 IMPORTANT NOTES TO USE SEVERAL AVS-MONITOR

- To use multiple AVS-Monitor on more than one PC on same Ethernet LAN, the AuviTran (EtherSound) service must run on only one of the machine and must be disabled on the other one.
    - On the machine where the AuviTran service is running the Local service button must be selected.
    - On the distant machine, the distant service must be selected with The IP address of the machine where the service is running.

- Due to today limitation of the EtherSound API provided by Digigram, Only one service AuviTran or Digigram could work at a time on a same Ethernet network (LAN).

11.1 Single AVS-Monitor use

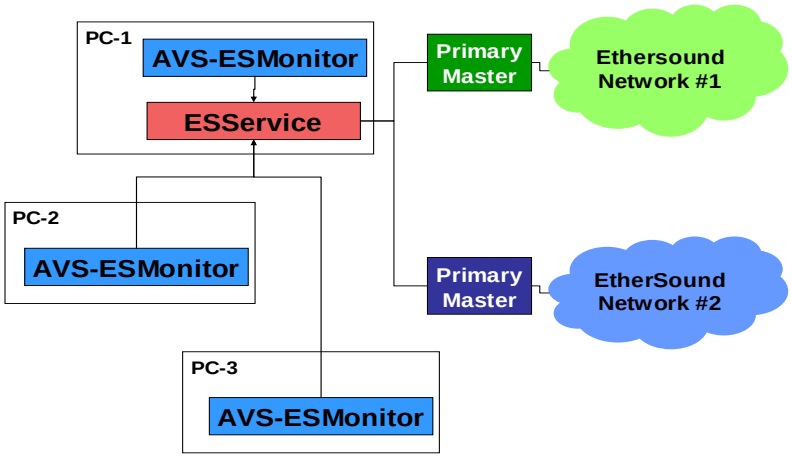
Here is a sketch of typical use of AVS-Monitor running on the same computer as the service managing two EtherSound networks.



One computer manages two EtherSound networks.

11.2 Multiple AVS-Monitor use

This sketch presents several AVS-Monitor on different PC using one service to control several EtherSound networks.



Again, only one computer manages two EtherSound networks.

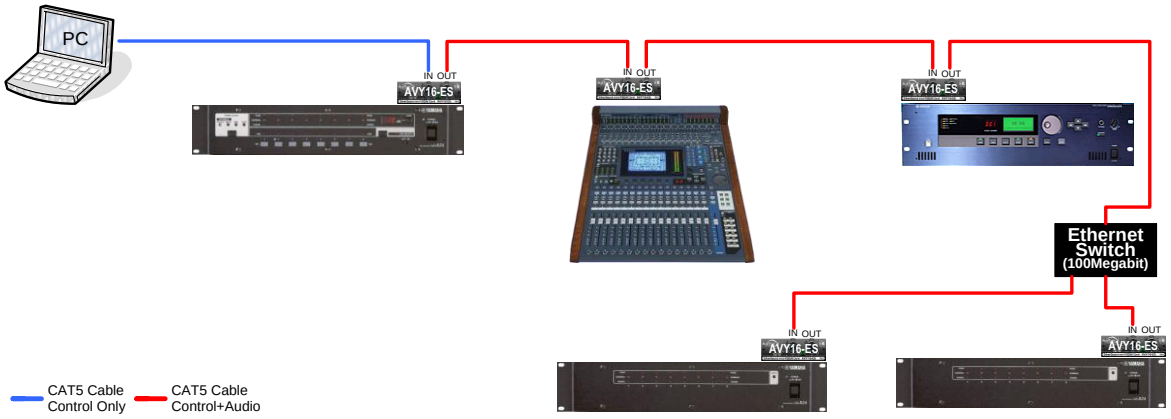
12 ETHERSOUND NETWORK ARCHITECTURE SAMPLES

In the following chapter, you will find samples of typical architecture EtherSound system.

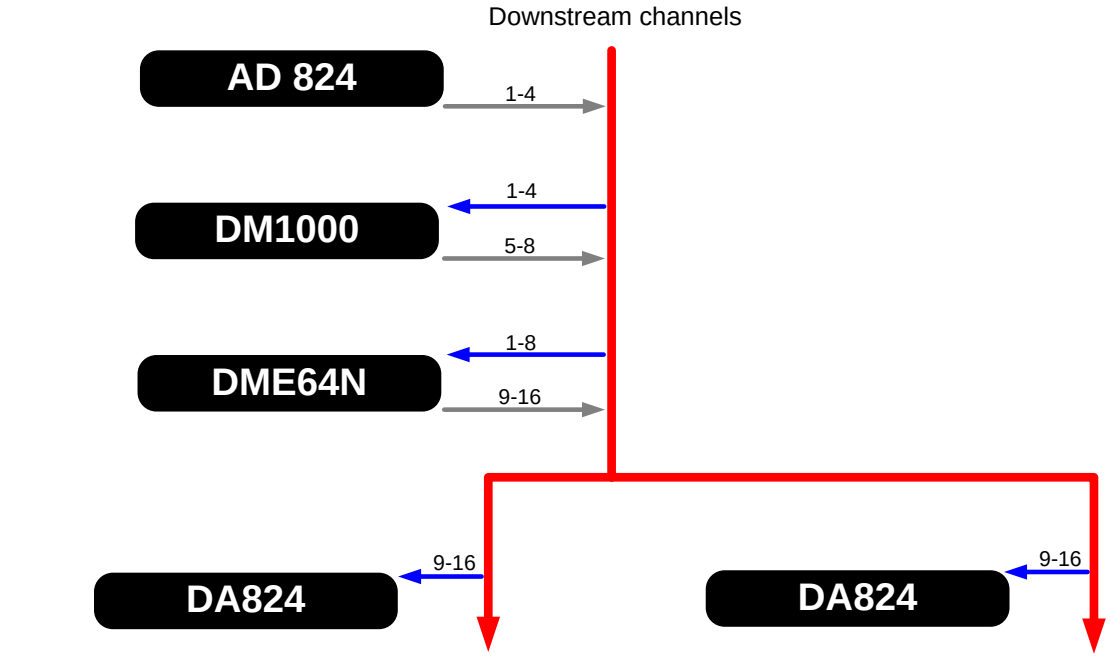
12.1 Mono Directional system

This sample describes a simple configuration using only downstream audio capabilities from EtherSound.

- AD824 provides clock for the whole network, and 4 inputs into downstream channels 1 to 4.
- DM1000 get feeds from downstream channels 1-4, provides 2 inputs to downstream channels 5-6, and adds 2 groups to downstream channels 7-8.
- DME64N get feeds from downstream channels 1-8, process them and reinsert them in downstream channels 9-16.
- Both DA824 get feeds from downstream channels 9-16.



EtherSound downstream channels are used that way:



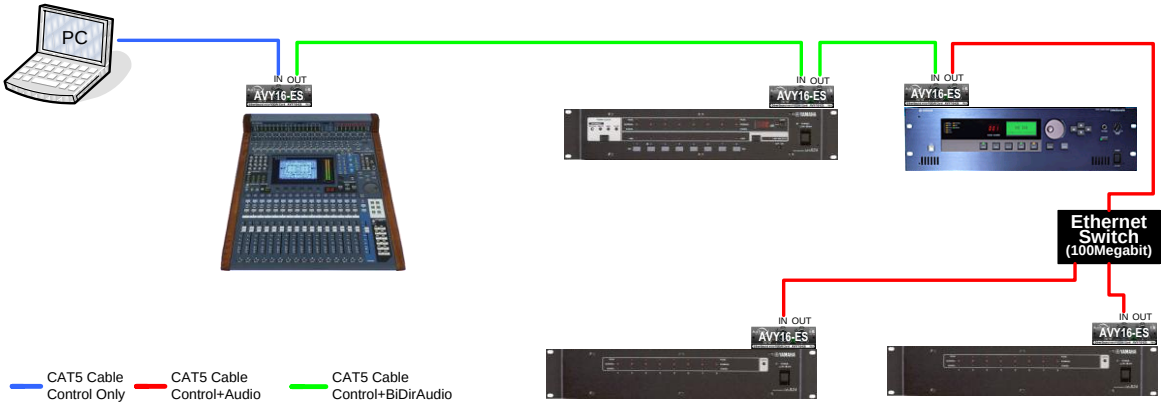
n ← Device gets audio from EtherSound channel *n*

m → Device provides audio into EtherSound channel *m*

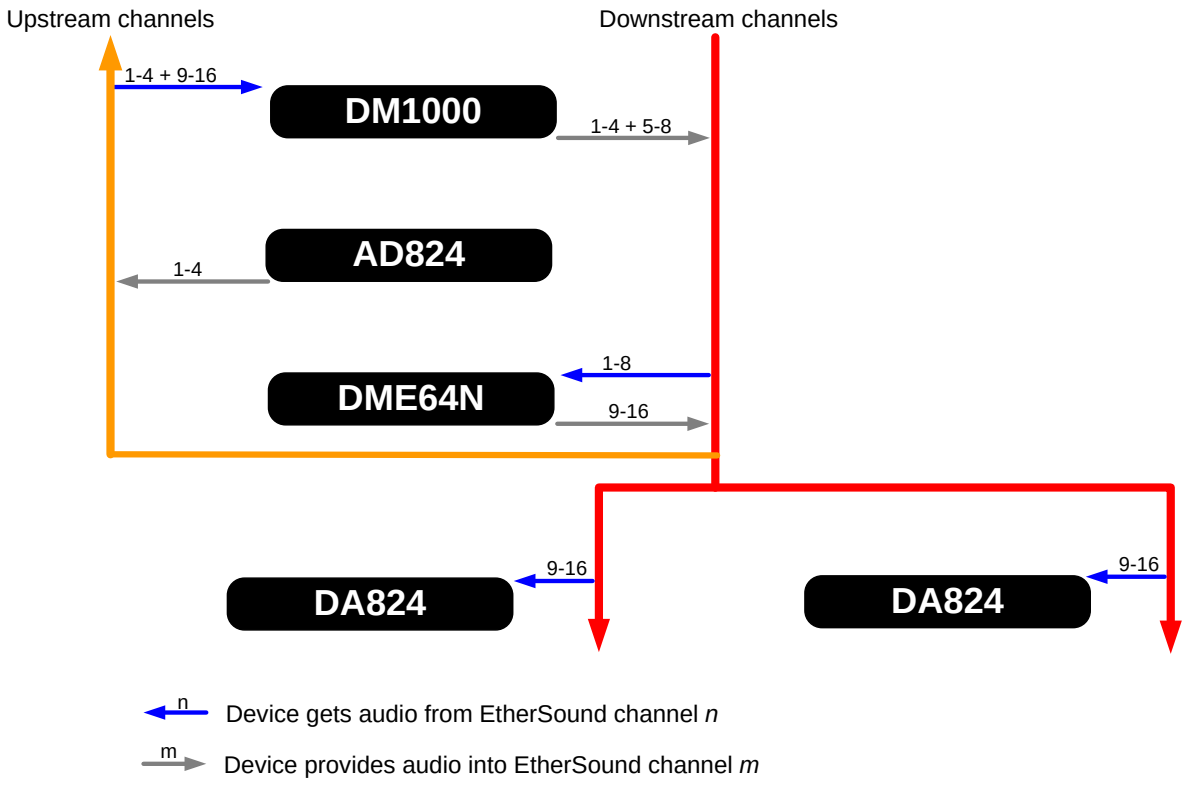
12.2 Bi Directional system

This sample describes a simple configuration using both downstream and upstream audio capabilities from EtherSound.

- DM1000 provides clock for the whole network, get feeds from upstream channels 1-4, and reinserts them in downstream channels 1-4, provides 2 inputs to downstream channels 5-6, and adds 2 groups to downstream channels 7-8. It can also get monitoring from upstream channels 9-16.
- AD824 adds 4 inputs into upstream channels 1-4.
- DME64N get feeds from downstream channels 1-8, process them and reinsert them in downstream channels 9-16.
- Both DA824 get feeds from downstream channels 9-16.



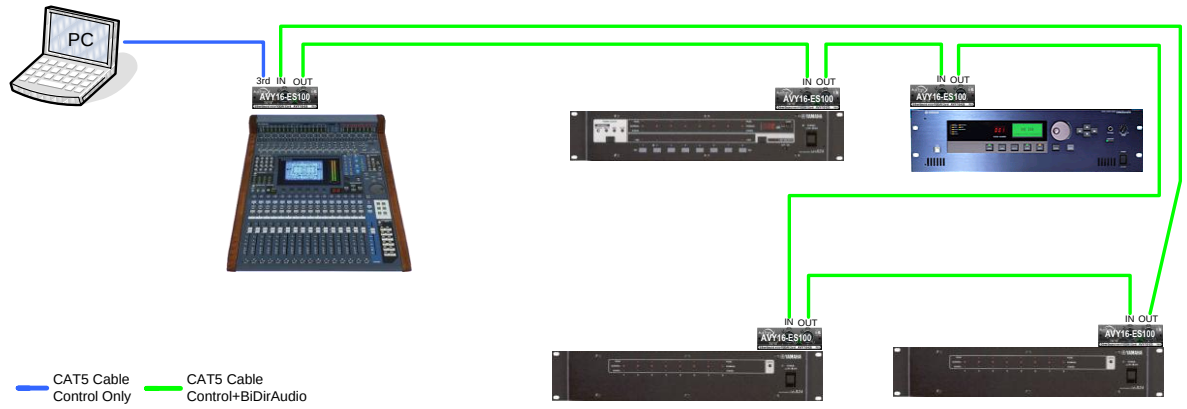
EtherSound downstream and upstream channels are used that way:



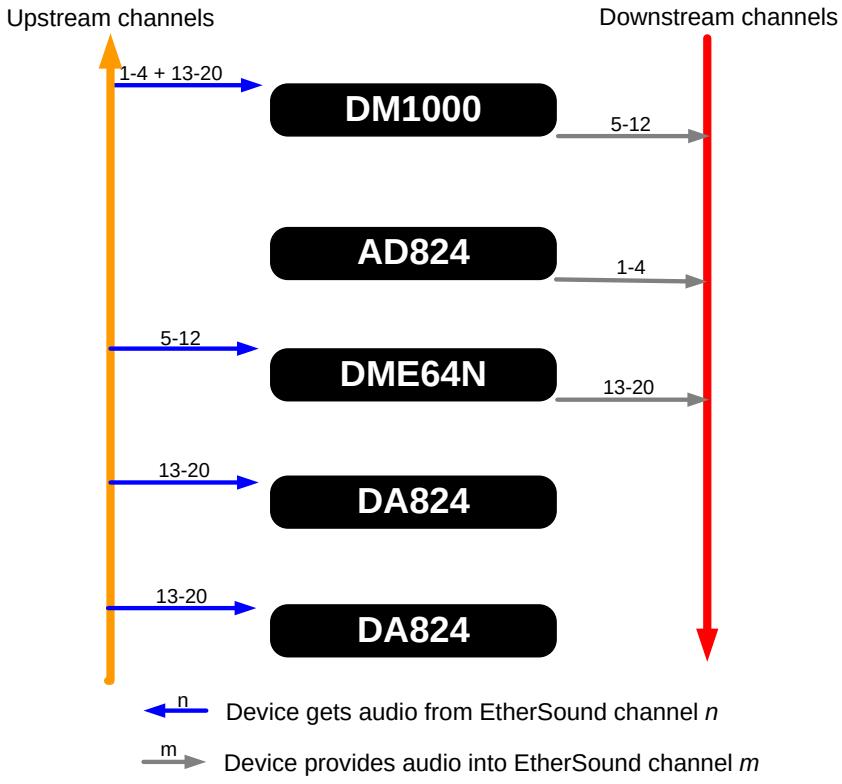
12.3 Ring system

This sample describes a simple configuration using ring mode audio capabilities from EtherSound.

- DM1000 is set as Preferred Primary Master and provides clock for the whole network, get feeds from upstream channels 1-4, and reinserts them in downstream channels 5-8, provides 2 inputs to downstream channels 9-10, and adds 2 groups to downstream channels 11-12. It can also get monitoring from upstream channels 13-20.
- AD824 adds 4 inputs into downstream channels 1-4.
- DME64N get feeds from upstream channels 5-12, process them and reinsert them in downstream channels 13-20.
- Both DA824 get feeds from upstream channels 13-20.



EtherSound downstream and upstream channels are used that way:



13 FREQUENTLY ASKED QUESTIONS

- Which port should be opened on firewalls?

⇒ AVS-ESService uses ports 7000, 7010, 7020. While AVS-Control Panel uses only port 7021.

- Why my AuviTran Service refuses to start on Control Panel?

⇒ Ensure that EtherSound Protocol is installed on your network adapter.

- New devices are not discovered by AVS-Monitor?

⇒ Ensure that automatic network/device detection is activated in the Control Panel.

- Why my hierarchy is modified after a manual selection from AVS-Monitor?

⇒ If automatic hierarchy option is activated for the service, and old device are present in the network, manual hierarchy detection will be overwritten at next hierarchy automatic check.

- MIDI Yoke driver does not appear in the MIDI configuration page in the Control Panel?

⇒ Be sure that MIDI Yoke driver were installed on your computer.

- AVY16-ES host device is not recognized?

⇒ Ensure that Host is redirected to the AVY16-ES slot in your Yamaha device.

- Why only one AVY16-ES recognized Yamaha host where I plugged two AVY16-ES?

⇒ Only one AVY16-ES card can be used for MIDI tunneling and therefore only one card will know in what Yamaha host it is plugged.

- Why Yamaha Studio Manager works only in one direction?

⇒ Ensure that MIDI Yoke port selected for Input and Output are different.

- Why hardware tunneling is not automatically reconfigured?

⇒ Ensure that once configured, all device configurations are written to memory via network popup menu.

- Why network routing page displays only grey squares?

⇒ Hierarchy has not been yet discovered. Use manual discovery to enable network routing use (Build hierarchy on main toolbar).

- Why service cannot be controlled when Vista is used?

⇒ User Account Control prevents access to service parameters. Execute software as administrator mode, or disable UAC (please refer to www.auvitran.com for instructions).

- Why AVS-Monitor can't detect my DANTE devices?

⇒ Check that your DANTE devices are connected to the appropriate network adapter.

⇒ Check that your DANTE devices have been assigned a proper IP address.

⇒ Only known DANTE devices are added to AVS-Monitor.

- Why AVS-Monitor can't route DANTE devices?

⇒ Current version of AVS-Monitor is only able to control known devices and cannot managed routing or DANTE device setup (such as redundant feature). This must be done using the Dante Controller software.

14 NOTES